

author index

Index of Issues: July, pp 1-152; August, pp 153-312; September, pp 313-480; October, pp 481-660; November, pp 661-812; December, pp 813-972. Page numbers beginning with S denote articles in the December Pathology Patterns Reviews.

A

Abati, Andrea, 870
 Abella, E., 582
 Abreu, Eliane S., 25
 Agoff, S. Nicholas, 727
 Agrawal, Neeta N., 235
 Ahmed, Iftikhar, 773
 Akin, Cem, 242
 Al-Kuran, Rasha A., 887
 Alawi, Faizan, S50
 Albitar, Maher, 560
 Almagro, Urias, 895
 Alvarez, Cesar, 67
 Amin, Mahul B., 202
 Anderson, Elizabeth, 408
 Annesley, Thomas M., 124
 Aoun, Patricia, 765
 Argani, Pedram, 742
 Argani, Peter, 52
 Arndt, Patricia A., 256
 Asare, Adam L., 567
 Asch, Bonnie B., 451
 Asch, Harold L., 451
 Ashfaq, Raheela, 52, 194
 Asma, Zeenat, 895
 Asplund, Sheryl L., 758
 Asschenfeldt, Pia, 85
 Astion, Michael L., 494
 Aubert, Jean-Pierre, 47
 Aust, Gabriela, 699
 Austin, R. Marshall, 714

B

Bacchi, Carlos E., 25
 Bacchi, Maura M., 25
 Baisden, Blaire L., 742
 Balaton, André J., 408
 Baloch, Zubair W., 165
 Barnett, Gene H., 512
 Barranco, Carlos, 749

Barry, Todd S., 589
 Battafarano, Daniel F., 14
 Baudrimont, Marielle, 211
 Behm, Frederick G., 248
 Belaud-Rotureau, Marc A., 832
 Berga, Li., 582
 Berger, Carol S., 216
 Berner, Aasmund, 85
 Beylot-Barry, Marie, 832
 Birdsong, George, 714
 Birembaut, Philippe, 708
 Biswas, Rajesh, 382
 Blakey, Gregory L., 323
 Blanes, Alfredo, 93
 Blumberg, Neil, 376
 Blute, Michael L., 877
 Boltze, Carsten, 699
 Borowitz, Michael J., 229
 Bory, Jean-Paul, 708
 Bouttens, Dominique, 708
 Brooks, John S., 451
 Bruckner, David A., 287
 Brunning, Richard D., 780
 Bryant-Greenwood, Peter K., 870
 Brydon, Lena, 451
 Bryne, Magne, 85
 Buck, Henry W., 714
 Buisine, Marie-Pierre, 47

C

Cabanillas, Fernando, 328
 Caldwell, Charles W., 567
 Cameron, John L., 52, 194
 Carpenter, Philip M., 887
 Casey, Graeme J., 269
 Casey, Thomas J., 14
 Castilla, Elias A., 512
 Cerilli, Lisa A., 186
 Chan, Wing C., 765

Chatelain, Denis, 211
 Chavan, Ashwini, 895
 Chen, Ahchean, S93
 Cheney, Richard T., 451
 Cheville, John C., 877
 Chhieng, David C., 418, 930
 Chiang, Hung, 693
 Christensen, Jette, 85
 Chun, Kelly Y., 856
 Cioc, Adina M., 842
 Clavel, Christine, 708
 Cohen, Michael B., 527
 Cohen, Patti, 216
 Collins, Robert H., 848
 Copin, Marie-Christine, 47
 Cortes, Jorge, 560
 Courville, Philippe, 832
 Cowles, Judith W., 376
 Cox, J. Thomas, 714
 Cucherousset, Joël, 708

D

Daley, Trisha, 242
 Darragh, Teresa M., 714
 Dasgupta, Amitava, 132
 Davey, Diane D., 714
 Davidson, Ben, 85
 Day, Sarah J., 41
 de Almeida, Sérgio M., 864
 de Bolós, Carme, 749
 Dean, Thomas, 727
 Deszo, Eric L., 41
 Dez, Francine, 708
 Diaz-Cano, Salvador J., 93
 Diebold, Joachim, 922
 Dighe, Anand S., S18
 Dillman, Christine A., 235
 Dillon, Dionne C., 451
 Dodson, Andrew R., 408
 Doi, Elvira M., 864

Domínguez, Francisco, 67
 Dong, Henry Y., 216
 Dong, Hiep Phuc, 85
 Dong, Qun, S71
 Dooley, David P., 14
 Dorvault, Christine C., 930
 Dubus, Pierre, 832
 Dudley, Thomas H., 186
 Dumler, J. Stephen, 742
 Duncan, Elizabeth M., 269
 Dunne, W. Michael, 542

E

Easley, Samantha E., 451
 Eichbaum, Quentin, S3
 Elder, David E., 489
 Elgert, Paul A., 714
 Elgui de Oliveira, Deilson, 25
 Ellis, Jason S., 567
 Eltoum, Isam A., 418, 930
 Eshleman, James R., 229
 Estey, Elihu, 560
 Evrard, Ghislaine, 708

F

Fadlalla, Adam, 179
 Falcão, Roberto P., 31
 Favaloro, Emmanuel J., 269, 548
 Feliu, E., 582
 Fetsch, Patricia A., 870
 Filie, Armando C., 870
 Fisher, David E., 930
 Flaherty, Lawrence E., 504
 Flejou, Jean-François, 211
 Fletcher, Christopher D.M., 163
 Fletcher, Jonathan A., 163
 Flood, James G., 856
 Foti, Joseph A., 399
 Frank, Elizabeth L., 124

Freireich, Emil, 560
Freund, Gregory G., 41

G

Gabbert, Helmut E., 60
Galanakis, Dennis K., 263
Garcia, Aglair B., 31
Garratty, George, 256
Gedder, Helene, 60
Genega, Elizabeth M., 903
Giles, Francis, 560
Gimotty, Phyllis A., 489
Giroti, Rajiv I., 382
Glickman, Jonathan N., 911
Goggins, Michael, 52
Goldstein, Neal S., 425, 719
González, María V., 67
Gorczyca, Wojciech, 216
Gosselin, Bernard, 47
Goto, Hidemi, 683
Granada, I., 582
Greiner, Timothy C., 765
Grieco, Verena S., 727
Grizzle, William H., 733
Gröne, Hermann-Josef, 364
Guerry, DuPont, 489
Gunn, Carla R., 194
Gunzer, Florian, 364

H

Hamann, Jörg, 699
Han, Xiang Y., 796
Hanson, Vivien, 714
Happe, Marc R., 14
Harris, Kenneth R., S18
Hartke, Marybeth, 512
Hayakawa, Tetsuo, 683
Heal, Joanna M., 376
Healy, James C., 172
Heeren, Bobbi, 542
Heise, Joachim W., 60
Hennig-Pauka, Isabel, 364
Henricks, Walter H., 172, 179
Henry, E. Charlene, 248
Henry, Michael R., 714
Herrero, Agustín, 67
Hertzberg, Mark, 269
Hicks, George L., Jr., 376
Hill, Harry R., 346
Hinrichs, Steven H., 536
Ho, Donald Ming-Tak, 693
Hoang, Mai P., 848
Hoda, Syed A., 101
Hruban, Ralph H., 52, 194
Hsu, Chih-Yi, 693
Huh, Yang, 560
Humphrey, Peter A., 442
Hunt, Jennifer L., S116
Hurd, Thelma, 451

I

Iacobuzio-Donahue, Christine, 52
Ingalls-Severn, Kathy, 727
Iwen, Peter C., 536

J

Jaffe, Elaine S., 242, 589
Januzzi, James, S93
Jasani, Bharat, 202, 408
Jaskowski, Troy D., 346
Jewell, Scott D., 733
Jhala, Darshana N., 418
Jhala, Nirag C., 418
Jilani, Iman, 560
Jockers, Ralf, 451
Joe, Youngson, 560
Johansen, Preben, 85
Joly, Pascal, 832
Jones, Alana K. Bergstrom, 18
Jones, Dan, 328, 574
Juenke, JoEtta, 124

K

Kanatani, Meganne, 287
Kantarjian, Hagop, 560
Keating, Michael, 560
Kern, Scott E., 52
Kim, Sara, 494
Kingma, Douglas W., 589
Kirkley, Scott A., 376
Kirshenbaum, Arnold S., 242
Koepke, John A., 11
Komorowski, Richard A., 895
Kratz, Alexander, 856
Kreipe, Hans-Heinrich, 364, 675
Kroft, Steven H., 758, 848
Kung, Fred Y.L., 522
Kurtin, Paul J., 391

L

Lae, Marick E., 773
Lai, Chiung-Ru, 693
Lai, Raymond, 328
Laszik, Zoltan G., 323
Lau, Tai-shing, 522
Law, Bonita K.B., 522
Lawnicki, Lyle C., 765
Lee, C. Soon, 522
Lee-Lewandrowski, Elizabeth, 856
Lenormand, Bernard, 832
Lepidi, Hubert, 742
Lerda, Nancy V., 269
Leroy, Xavier, 47
Lewandrowski, Kent B., 856, S93

Lewis, James S., Jr., 442
Li, Shiyong, 229
Lien, Elizabeth A., 536
Lin, Oscar, 418
Lin, Shang-Che, 179
Linscott, Andrea J., 287
Liotta, Lance A., 870
Lipman, Harvey B., 278
Litwin, Christine M., 346
Liu, P.Y., 504
Liu, Zach, 216
LiVolsi, Virginia A., 165, 733
Lloyd, John V., 269
Löhrs, Udo, 922
Lohse, Christine M., 877
Lones, Mark A., 335
López-Ferrer, Anna, 749
Lorenzato, Marianne, 708
Lorsbach, Robert B., 248
Lu, Dongsi, 542
Luthra, Rajyalakshmi, 796

M

Machhi, Jinoby, 895
MacLennan, Greg, 733
Macon, William R., 773
Maitra, Anirban, 52, 194
Malkowicz, Bruce, 903
Manshouri, Taghi, 560
Marconi, Sharon, 73
Marincola, Francesco M., 870
Marlowe, Elizabeth M., 287
Martin, Alvin W., 589
Martinez, Armando, 93
Martins, Sérgio L.R., 31
Martins, Thomas B., 346
Matsumura, Fumio, 335
Matussek, Andreas, 364
McCart, Linda M., 733
McDonnell, Timothy J., 328
McHale, Teresa, 903
McKenna, Robert W., 758, 848
Medeiros, L. Jeffrey, 328, 574
Meijer, Jos W.R., 459
Mengel, Michael, 364, 675
Merlio, Jean P., 832
Metcalfe, Dean D., 242
Meyer, Pamela, 787
Meyer, Renee, 52
Meyerson, Howard J., 235
Millá, F., 582
Mills, Stacey E., 186
Moran, Cesar A., 418
Morgan, Meleri, 202
Morice, William G., 391
Morrison, Carl, 435
Moskaluk, Christopher A., 186, 669
Mourra, Najat, 211
Mukherjee, Kanchan, 382

Mukunyadzi, Perkins, S100
Mulder, Chris J.J., 459
Müller-Hermelink, Hans Konrad, 675
Murphy, Frederick T., 14
Myers, Jeffrey L., 391

N

Naeem, Rizwan, 73
Nagasaka, Tetsuro, 683
Nakashima, Nobuo, 683
Nash, Gerald, 73
Nash, Shirin, 73
Neff, James R., 536
Nelson, Amanda, 494
Nielsen, Søren, 85
Niero-Melo, Ligia, 25
Niimi, Chikanori, 683
Niwa, Yasumasa, 683
Nixon, Brigitte K., 727
Noel, Pierre, 242
Nou, Jean-Marie, 708
Nuovo, Gerard J., 842

O

Ohmiya, Naoki, 683
Onciu, Mihaela, 248
Ono, Margaret, 864
Oriol, A., 582
Osei, Ebenezer S., 235

P

Panteghini, Mauro, 354
Parc, Rolland, 211
Parker, Elizabeth M., 399
Parrens, Marie, 832
Pasi, Brian M., 346
Paye, François, 211
Peiró, Gloria, 922
Persoon, Thomas J., 527
Petricoin, Emmanuel F., 870
Pettay, James, 512
Pham, Audrey S., 796
Pickering, Jerry W., 346
Pinkus, Geraldine S., 335, 911
Pinkus, Jack L., 335, 911
Pittaluga, Stefania, 589
Poon, Annette, 18
Porchet, Nicole, 47
Portieres, Fernando L., 31
Prayson, Richard A., 512
Putti, Thomas C., 522

Q

Queiroz-Telles, Flávio, 864
Quereux, Christian, 708
Quinn, Diana M., 269

R

Raffeld, Mark, 242, 589
 Rahman, Ayman, 52, 194
 Rao, R. Nagarjun, 895
 Raoult, Didier, 742
 Rassidakis, George Z., 328
 Reiss, Errol, 278
 Rennie, Thomas A., 14
 Renshaw, Andrew A., 82, 208, 518
 Reverter, J.C., 582
 Rhodes, Anthony, 408
 Ribera, J.M., 582
 Rinker, Linda, 727
 Risberg, Bjørn, 85
 Risher, William H., 376
 Rizzatti, Edgar G., 31
 Roberts, William L., 124
 Rodgers, Susan E., 269
 Rodrigo, Juan P., 67
 Rosen, Paul Peter, 101
 Rosner, Eunice R., 278
 Rozman, C., 582
 Rubin, Eric J., S3
 Rubio, Javier, 93
 Rüdiger, Thomas, 675
 Rumpel, Craig A., 186
 Rupp, Mark E., 536

S

Said, Jonathan W., 335
 Samuel, Prem K., 376
 Sánchez-Planell, L., 582
 Sandhaus, Linda M., 235, 787
 Sandhoff, Roger, 364
 Sarbia, Mario, 60
 Schütz, Alexander, 699
 Schwarz, Elisabeth L., 124
 Scoazec, Jean-Yves, 211

Scolyer, Richard A., 522
 Sedmak, Daniel D., 733
 Sen, Filiz, 328
 Seykora, John T., S33
 Shadomy, H. Jean, 278
 Sheffield, Matthew V., 930
 Shidham, Vinod B., 895
 Siegal, Gene P., 930
 Siegel, Arthur J., 856
 Sikorska, Krystyna, 73
 Silva, Dirceu E., 31
 Silvestrini, Roger, 548
 Simone, Nicole L., 870
 Simsir, Aylin, 418
 Smith, Eve Y., 263
 So, Chi-chiu, 225
 Sohn, Taylor A., 52, 194
 Sondak, Vernon K., 504
 Sood, Pramila K., 796
 Sorbara, Lynn, 589
 Srinivasan, Mythily, 733
 Stancu, Mirela, 574
 Stanley, Michael W., 825
 Steinert, Matthias, 699
 Stephenson, Christine F., 216
 Storm, Craig A., S33
 Stowell, Christopher P., S71
 Suárez, Carlos, 67
 Szallasi, Arpad, 110

T

Tamboli, Pheroze, 202
 Tarrand, Jeffrey J., 796
 Terrazas, Enrique, 494
 Theuer, Charles P., 887
 Thil, Corinne, 708
 Thomaides, Athanasios, 328
 Thomas, Deborah, 560
 Tomaszewski, John E., 903

Torlakovic, Emina, 780
 Torlakovic, Goran, 780
 True, Lawrence D., 827
 Tsang, Patricia, 216
 Tse, Gary M.K., 522
 Tubbs, Raymond R., 512
 Tuthill, Ralph J., 504

U

Unger, Joseph M., 504

V

Van Cott, Elizabeth M., 263, 856
 Van Lente, Frederick, 179
 Varma, Murali, 202
 Vega, Francisco, 574
 Veligandla, Shailaja R., 536
 Vergier, Béatrice, 832
 Versalovic, James, S26
 Vollmer, Robin T., 442
 von Wasielewski, Reinhard, 675

W

Wahab, Peter J., 459
 Wahlbuhl, Mandy, 699
 Wakely, Paul E., Jr., 435
 Waldman, Jeffrey, 714
 Waldmann, Karl-Heinz, 364
 Ward, John A., 14
 Warren, Nancy G., 278
 Wasik, Mariusz A., S81
 Weaver, Amy L., 877
 Weilbaecher, Katherine N., 930
 Weisberger, James, 216
 Weisenburger, Dennis D., 765
 Werneck, Lineu C., 864

Wickert, Robert S., 765
 Wieczorek, Tad J., 911
 Wiese, Birgitt, 675
 Wilbur, David C., 399
 Wilentz, Robb E., 52, 194
 Williams, Nita, 733
 Wilson, Michael L., 167
 Winston, Janet S., 451
 Wobus, Manja, 699
 Wolfe, Hubert J., 93
 Wolter, Marietta, 60
 Wong, Kit-fai, 225
 Wu, C. Daniel, 216

X

Xu, Yin, 758, 848

Y

Yamashiro, Shigeko, 335
 Yang, Ching-Fen, 693
 Yardley, John H., 742
 Yared, Marwan, 560
 Yee, Herman, 930
 Yeo, Charles J., 52, 194
 Young, Donn C., 435
 Young, Paul, 832
 Yu, I-Ting, 693

Z

Zaleski, M. Sue, 527
 Zerimech, Farid, 47
 Zeriouh, Mohamed, 60
 Zhang, Mancong, S26
 Zincke, Horst, 877
 Zini, Laurent, 47

title index

Index of Issues: July, pp 1-152; August, pp 153-312; September, pp 313-480; October, pp 481-660; November, pp 661-812; December, pp 813-972. Page numbers beginning with S denote articles in the December Pathology Patterns Reviews.

ANATOMIC PATHOLOGY

Case Report

Unilocular Acinar Cell Cystadenoma of the Pancreas: An Unusual Acinar Cell Tumor

Denis Chatelain, François Paye, Najat Mourra, Jean-Yves Scoazec, Marielle Baudrimont, Rolland Parc, and Jean-François Flejou, 211

Original Articles

Analysis of the Molecular Quality of Human Tissues: An Experience From the Cooperative Human Tissue Network

Scott D. Jewell, Mythily Srinivasan, Linda M. McCart, Nita Williams, William H. Grizzle, Virginia LiVolsi, Greg MacLennan, and Daniel D. Sedmak, 733

ASCCP Patient Management Guidelines: Pap Test Specimen Adequacy and Quality Indicators

Diane D. Davey, R. Marshall Austin, George Birdsong, Henry W. Buck, J. Thomas Cox, Teresa M. Darragh, Paul A. Elgert, Vivien Hanson, Michael R. Henry, and Jeffrey Waldman, 714

Can Mucinous Lesions of the Breast Be Reliably Diagnosed by Core Needle Biopsy?

Andrew A. Renshaw, 82

Carcinoma Extent in Prostate Needle Biopsy Tissue in the Prediction of Whole Gland Tumor Volume in a Screening Population

James S. Lewis, Jr, Robin T. Vollmer, and Peter A. Humphrey, 442

CAS (Cellular Apoptosis Susceptibility) Gene Expression in Ovarian Carcinoma: Correlation With 20q13.2 Copy Number and Cyclin D1, p53, and Rb Protein Expression

Gloria Peiró, Joachim Diebold, and Udo Löhrs, 922

CD97, but Not Its Closely Related EGF-TM7 Family Member EMR2, Is Expressed on Gastric, Pancreatic, and Esophageal Carcinomas

Gabriela Aust, Matthias Steinert, Alexander Schütz, Carsten Boltze, Mandy Wahlbuhl, Jörg Hamann, and Manja Wobus, 699

Chromosome 1p Allelic Loss by Fluorescence In Situ Hybridization

Richard A. Prayson, Elias A. Castilla, Marybeth Hartke, James Pettay, Raymond R. Tubbs, and Gene H. Barnett, 512

Chronic Inactive Gastritis and Coccoid *Helicobacter pylori* in Patients Treated for Gastroesophageal Reflux Disease or With

H pylori Eradication Therapy

Neal S. Goldstein, 719

Clinicopathologic Significance of Expression of CD44s and CD44v6 Isoforms in Squamous Cell Carcinoma of the Supraglottic Larynx

Juan P. Rodrigo, Francisco Domínguez, Cesar Alvarez, María V. González, Agustín Herrero, and Carlos Suárez, 67

Comparison of Five Antibodies as Markers in the Diagnosis of Melanoma in Cytologic Preparations

Matthew V. Sheffield, Herman Yee, Christine C. Dorvault, Katherine N. Weilbaecher, Isam A. Eltoum, Gene P. Siegal, David E. Fisher, and David C. Chhieng, 930

Comparison of Standardized and Nonstandardized Nuclear Grade of Renal Cell Carcinoma to Predict Outcome Among 2,042 Patients

Christine M. Lohse, Michael L. Blute, Horst Zincke, Amy L. Weaver, and John C. Cheville, 877

Comparison of Thyroid Transcription Factor-1 and Hepatocyte Antigen Immunohistochemical Analysis in the Differential Diagnosis of Hepatocellular Carcinoma, Metastatic Adenocarcinoma, Renal Cell Carcinoma, and Adrenal Cortical Carcinoma

Tad J. Wieczorek, Jack L. Pinkus, Jonathan N. Glickman, and Geraldine S. Pinkus, 911

Cyclooxygenase 2 Expression in Pancreatic Adenocarcinoma and Pancreatic Intraepithelial Neoplasia: An Immunohistochemical Analysis With Automated Cellular Imaging

Anirban Maitra, Raheela Ashfaq, Carla R. Gunn, Ayman Rahman, Charles J. Yeo, Taylor A. Sohn, John L. Cameron, Ralph H. Hruban, and Robb E. Wilentz, 194

Cytopathology of Malignant Melanoma in Conventional and Liquid-Based Smears

Carl Morrison, Donn C. Young, and Paul E. Wakely, Jr, 435

Detection of Malignant Epithelial Cells in Effusions Using Flow Cytometric Immunophenotyping: An Analysis of 92 Cases

Ben Davidson, Hiep Phuc Dong, Aasmund Berner, Jette Christensen, Søren Nielsen, Preben Johansen, Magne Bryne, Pia Asschenfeldt, and Bjørn Risberg, 85

Diagnosis of Whipple Disease by Immunohistochemical Analysis: A Sensitive and Specific Method for the Detection of *Tropheryma whipplei* (the Whipple Bacillus) in Paraffin-Embedded Tissue

Blaire L. Baisden, Hubert Lepidi, Didier Raoult, Pedram Argani, John H. Yardley, and J. Stephen Dumler, 742

Differences in the O-Glycosylation Patterns Between Lung Squamous Cell Carcinoma and Adenocarcinoma

Anna López-Ferrer, Carlos Barranco, and Carme de Bolós, 749

Differential Expression of High-Affinity Melatonin Receptors (MT1) in Normal and Malignant Human Breast Tissue

Dionne C. Dillon, Samantha E. Easley, Bonnie B. Asch, Richard T. Cheney, Lena Brydon, Ralf Jockers, Janet S. Winston, John S. Brooks, Thelma Hurd, and Harold L. Asch, 451

Does the Level of E-Cadherin Expression Correlate With the Primary Breast Carcinoma Infiltration Pattern and Type of Systemic Metastases?

Neal S. Goldstein, 425

Dual Sampling of the Endocervix and Its Impact on AutoCyt Prep Endocervical Adequacy

Sarah J. Day, Eric L. Deszo, and Gregory G. Freund, 41
Efficacy of Reprocessing Unsatisfactory Cervicovaginal ThinPrep Specimens With and Without Glacial Acetic Acid, The: Effect on Hybrid Capture II Human Papillomavirus Testing and Clinical Follow-up

S. Nicholas Agoff, Thomas Dean, Brigitte K. Nixon, Kathy Ingalls-Severn, Linda Rinker, and Verena S. Grieco, 727

Evaluation of HER-2/neu Immunohistochemical Assay Sensitivity and Scoring on Formalin-Fixed and Paraffin-Processed Cell Lines and Breast Tumors: A Comparative Study Involving Results From Laboratories in 21 Countries

Anthony Rhodes, Bharat Jasani, Elizabeth Anderson, Andrew R. Dodson, and André J. Balaton, 408

Evidence-Based Criteria for Adequacy in Thyroid Fine-Needle Aspiration

Andrew A. Renshaw, 518

Expression of Cytolytic Lymphocyte-Associated Antigens in Pulmonary Lymphomatoid Granulomatosis

William G. Morice, Paul J. Kurtin, and Jeffrey L. Myers, 391

Fine-Needle Aspiration Biopsy of Nonteratomatous Germ Cell Tumors of the Mediastinum

David C. Chhieng, Oscar Lin, Cesar A. Moran, Isam A. Eltoum, Nirag C. Jhala, Darshana N. Jhala, and Aylin Simsir, 418

Focal Features of Papillary Carcinoma of the Thyroid in Fine-Needle Aspiration Material Are Strongly Associated With Papillary Carcinoma at Resection

Andrew A. Renshaw, 208

Gene Amplification and Protein Overexpression of c-erb-b2 in Barrett Carcinoma and Its Precursor Lesions

Helene Geddert, Mohamed Zerrouh, Marietta Wolter, Joachim W. Heise, Helmut E. Gabbert, and Mario Sarbia, 60

Histologic Follow-up of People With Celiac Disease on a Gluten-Free Diet: Slow and Incomplete Recovery

Peter J. Wahab, Jos W.R. Meijer, and Chris J.J. Mulder, 459

Hormonal Receptors Expression in Epithelial Cells of Mammary Phyllodes Tumors Correlates With Pathologic Grade of the Tumor: A Multicenter Study of 143 Cases

Gary M.K. Tse, C. Soon Lee, Fred Y.L. Kung, Richard A. Scolyer, Bonita K.B. Law, Tai-shing Lau, and Thomas C. Putti, 522
Immunohistochemical Validation of a Novel Epithelial and a Novel Stromal Marker of Pancreatic Ductal Adenocarcinoma Identified by Global Expression Microarrays: Sea Urchin Fascin Homolog and

Heat Shock Protein

Anirban Maitra, Christine Iacobuzio-Donahue, Ayman Rahman, Taylor A. Sohn, Peter Argani, Renee Meyer, Charles J. Yeo, John L. Cameron, Michael Goggins, Scott E. Kern, Raheela Ashfaq, Ralph H. Hruban, and Robb E. Wilentz, 52

Improving Pap Test Turnaround Time Using External Benchmark Data and Engineering Process Improvement Tools

Thomas J. Persoon, M. Sue Zaleski, and Michael B. Cohen, 527
Interobserver Reproducibility of Her-2/neu Protein Overexpression in Invasive Breast Carcinoma Using the DAKO HercepTest

Chih-Yi Hsu, Donald Ming-Tak Ho, Ching-Fen Yang, Chiung-Ru Lai, I-Ting Yu, and Hung Chiang, 693

Interpretation of RET Immunostaining in Follicular Lesions of the Thyroid

Lisa A. Cerilli, Stacey E. Mills, Craig A. Rumpel, Thomas H. Dudley, and Christopher A. Moskaluk, 186

Intraoperative Cytology Increases the Diagnostic Accuracy of Frozen Sections for the Confirmation of Various Tissues in the Parathyroid Region

Vinod B. Shidham, Zeenat Asma, R. Nagarjun Rao, Ashwini Chavan, Jinobya Machhi, Urias Almagro, and Richard A. Komorowski, 895

Kinetic Profiles by Topographic Compartments in Muscle-Invasive Transitional Cell Carcinomas of the Bladder: Role of TP53 and NF1 Genes

Alfredo Blanes, Javier Rubio, Armando Martinez, Hubert J. Wolfe, and Salvador J. Diaz-Cano, 93

Location-Guided Screening of Liquid-Based Cervical Cytology Specimens: A Potential Improvement in Accuracy and Productivity Is Demonstrated in a Preclinical Feasibility Trial

David C. Wilbur, Elizabeth M. Parker, and Joseph A. Foti, 399
MUC1 Expression Is Correlated With Nuclear Grade and Tumor Progression in pT1 Renal Clear Cell Carcinoma

Xavier Leroy, Farid Zerimech, Laurent Zini, Marie-Christine Copin, Marie-Pierre Buisine, Bernard Gosselin, Jean-Pierre Aubert, and Nicole Porchet, 47

Paranuclear E-Cadherin in Gastric Adenocarcinoma

Philip M. Carpenter, Rasha A. Al-Kuran, and Charles P. Theuer, 887

Polyclonal Anti-PSA Is More Sensitive but Less Specific Than Monoclonal Anti-PSA: Implications for Diagnostic Prostatic Pathology

Murali Varma, Meleri Morgan, Bharat Jasani, Pheroze Tamboli, and Mahul B. Amin, 202

Potential Pitfalls in the Frozen Section Evaluation of Parenchymal Margins in Nephron-Sparing Surgery

Teresa McHale, S. Bruce Malkowicz, John E. Tomaszewski, and Elizabeth M. Genega, 903

Proteomic Evaluation of Archival Cytologic Material Using SELDI Affinity Mass Spectrometry: Potential for Diagnostic Applications

Patricia A. Fetsch, Nicole L. Simone, Peter K. Bryant-Greenwood, Francesco M. Marincola, Armando C. Filie, Emmanuel F. Petricoin, Lance A. Liotta, and Andrea Abati, 870

Risk Assessment in Localized Primary Cutaneous Melanoma: A Southwest Oncology Group Study Evaluating Nine Factors and a Test of the Clark Logistic Regression Prediction Model

Ralph J. Tuthill, Joseph M. Unger, P.Y. Liu, Lawrence E. Flaherty, and Vernon K. Sondak, 504

Role of Liver Biopsy in the Diagnosis of Hepatic Iron Overload in the Era of Genetic Testing

Shirin Nash, Sharon Marconi, Krystyna Sikorska, Rizwan Naeem, and Gerald Nash, 73

Tissue Array Technology for Testing Interlaboratory and Interobserver Reproducibility of Immunohistochemical Estrogen Receptor Analysis in a Large Multicenter Trial

Reinhard von Wasielewski, Michael Mengel, Birgitt Wiese, Thomas Rüdiger, Hans Konrad Müller-Hermelink, and Hans Kreipe, 675

Usefulness of DNA Ploidy Measurement on Liquid-Based Smears Showing Conflicting Results Between Cytology and High-Risk Human Papillomavirus Typing

Marianne Lorenzato, Jean-Paul Bory, Joël Cucherousset, Jean-Marie Nou, Dominique Bouttens, Corinne Thil, Francine Dez, Ghislaine Evrand, Christian Quereux, Philippe Birembaut, and Christine Clavel, 708

Usefulness of p53 and Ki-67 Immunohistochemical Analysis for Preoperative Diagnosis of Extremely Well-Differentiated Gastric Adenocarcinoma

Chikanori Niimi, Hidemi Goto, Naoki Ohmiya, Yasumasa Niwa, Tetsuo Hayakawa, Tetsuro Nagasaka, and Nobuo Nakashima, 683

Review Article

Practical Considerations in the Pathologic Diagnosis of Needle Core Biopsies of Breast

Syed A. Hoda and Paul Peter Rosen, 101

BASIC SCIENCE

Review Article

Vanilloid (Capsaicin) Receptors in Health and Disease

Arpad Szallasi, 110

CLINICAL CHEMISTRY

Original Articles

Determination of Cytokine Responses Using a Multiplexed Fluorescent Microsphere Immunoassay

Thomas B. Martins, Brian M. Pasi, Jerry W. Pickering, Troy D. Jaskowski, Christine M. Litwin, and Harry R. Hill, 346

Effect of Marathon Running on Hematologic and Biochemical Laboratory Parameters, Including Cardiac Markers

Alexander Kratz, Kent B. Lewandrowski, Arthur J. Siegel, Kelly Y. Chun, James G. Flood, Elizabeth M. Van Cott, and Elizabeth Lee-Lewandrowski, 856

Performance Characteristics of Four Immunoassays for Antiepileptic Drugs on the IMMULITE 2000 Automated Analyzer

Elizabeth L. Frank, Elisabeth L. Schwarz, JoEtta Juenke, Thomas M. Annesley, and William L. Roberts, 124

Review Articles

Endogenous and Exogenous Digoxin-like Immunoreactive Substances: Impact on Therapeutic Drug Monitoring of Digoxin

Amitava Dasgupta, 132

Measurement of Cardiac Markers, The: Where Should We Focus?

Mauro Panteghini, 354

COAGULATION AND TRANSFUSION MEDICINE

Original Articles

Assessing the Usefulness of Anticardiolipin Antibody Assays: A Cautious Approach Is Suggested by High Variation and Limited Consensus in Multilaboratory Testing

Emmanuel J. Favaloro and Roger Silvestrini, 548

Cross-Reactivity of Cefotetan and Ceftriaxone Antibodies, Associated With Hemolytic Anemia, With Other Cephalosporins and Penicillin

Patricia A. Arndt and George Garratty, 256

Elevated Fibrinogen in an Acute Phase Reaction Prolongs the Reptilase Time but Typically Not the Thrombin Time

Elizabeth M. Van Cott, Eve Y. Smith, and Dennis K. Galanakis, 263

Gnotobiotic Piglets Develop Thrombotic Microangiopathy After Oral Infection With Enterohemorrhagic *Escherichia coli*

Florian Gunzer, Isabel Hennig-Pauka, Karl-Heinz Waldmann, Roger Sandhoff, Hermann-Josef Gröne, Hans-Heinrich Kreipe, Andreas Matussek, and Michael Mengel, 364

Identification of von Willebrand Disease Type 2N (Normandy) in Australia: A Cross-Laboratory Investigation Using Different Methods

Susan E. Rodgers, Nancy V. Lerda, Emmanuel J. Favaloro, Elizabeth M. Duncan, Graeme J. Casey, Diana M. Quinn, Mark Hertzberg, and John V. Lloyd, 269

Leukocyte-Reduced Transfusions in Cardiac Surgery: Results of an Implementation Trial

Neil Blumberg, Joanna M. Heal, Judith W. Cowles, George L. Hicks, Jr, William H. Risher, Prem K. Samuel, and Scott A. Kirkley, 376

Restriction Fragment Length Polymorphism and Polymerase Chain Reaction: HLA-DQA1 and Polymarker Analysis of Blood Samples From Transfusion Recipients

Rajiv I. Giroi, Rajesh Biswas, and Kanchan Mukherjee, 382

EDITORIALS

Education and Training: Practice Makes Perfect

Michael L. Wilson, 167

Proteomics

Michael W. Stanley, 825

Quest for a Magic Tumor Marker: Continuing Saga in the Diagnosis of the Follicular Lesions of Thyroid, The

Zubair W. Baloch and Virginia A. LiVolsi, 165

Searching for a Valid Animal Model of Hemolytic Uremic Syndrome

Zoltan G. Laszik and Gregory L. Blakey, 323

Standardization of Clinical Immunohistochemistry: Why, How, and by Whom?

Christopher A. Moskaluk, 669

Testing for KIT (CD117) in Gastrointestinal Stromal Tumors: Another HerceptTest?

Christopher D.M. Fletcher and Jonathan A. Fletcher, 163

Time for Accurate Fuhrman Grading of Renal Cell Carcinomas Has Arrived, The

Lawrence D. True, 827

Validation of Prognostic Models for Melanoma

Phyllis A. Gimotty, DuPont Guerry, and David E. Elder, 489

Welcome Innovation in Erythrocyte Sedimentation Testing

John A. Koepke, 11

HEMATOPATHOLOGY

Original Articles

Apoptotic Rate in Peripheral T-Cell Lymphomas: A Study Using a Tissue Microarray With Validation on Full Tissue Sections

George Z. Rassidakis, Dan Jones, Athanasios Thomaides, Filiz Sen, Raymond Lai, Fernando Cabanillas, Timothy J. McDonnell, and L. Jeffrey Medeiros, 328

Bone Marrow Changes in Anorexia Nervosa Are Correlated With the Amount of Weight Loss and Not With Other Clinical Findings

E. Abella, E. Feliu, I. Granada, F. Millá, A. Oriol, J.M. Ribera, L. Sánchez-Planell, Ll. Berga, J.C. Reverter, and C. Rozman, 582

CD5+ Follicular Lymphoma: A Clinicopathologic Study of Three Cases

Todd S. Barry, Elaine S. Jaffe, Douglas W. Kingma, Alvin W. Martin, Lynn Sorbara, Mark Raffeld, and Stefania Pittaluga, 589

CD5- Mantle Cell Lymphoma

Zach Liu, Henry Y. Dong, Wojciech Gorczyca, Patricia Tsang, Patti Cohen, Christine F. Stephenson, Carol S. Berger, C. Daniel Wu, and James Weisberger, 216

Clusterin Is Widely Expressed in Systemic Anaplastic Large Cell Lymphoma but Fails to Differentiate Primary From Secondary Cutaneous Anaplastic Large Cell Lymphoma

Marick E. Lae, Ifthikhar Ahmed, and William R. Macon, 773

Comparison of Immunophenotypes of Small B-Cell Neoplasms in Primary Lymph Node and Concurrent Blood or Marrow Samples

Yin Xu, Robert W. McKenna, Sheryl L. Asplund, and Steven H. Kroft, 758

Composite Angioimmunoblastic T-Cell Lymphoma and Diffuse Large B-Cell Lymphoma: A Case Report and Review of the Literature

Yin Xu, Robert W. McKenna, Mai P. Hoang, Robert H. Collins, and Steven H. Kroft, 848

Decision-Support System for Flow Cytometry

Immunophenotyping, A

Adam L. Asare, Jason S. Ellis, and Charles W. Caldwell, 567

Differences in CD33 Intensity Between Various Myeloid Neoplasms

Iman Jilani, Elihu Estey, Yang Huh, Youngson Joe, Taghi Manshouri, Marwan Yared, Francis Giles, Hagop Kantarjian, Jorge Cortes, Deborah Thomas, Michael Keating, Emil Freireich, and Maher Albitar, 560

Evaluation of a Single-Tube Multiplex Polymerase Chain Reaction Screen for Detection of Common alpha-Thalassemia Genotypes in a Clinical Laboratory

Alana K. Bergstrom Jones and Annette Poon, 18

Expression of μ -BCR-ABL Transcripts in Chronic Neutrophilic Leukemia

Adina M. Cioc and Gerard J. Nuovo, 842

Expression of CD117 and CD11b in Bone Marrow Can Differentiate Acute Promyelocytic Leukemia From Recovering Benign Myeloid Proliferation

Edgar G. Rizzatti, Aglair B. Garcia, Fernando L. Portieres, Dirceu E. Silva, Sérgio L.R. Martins, and Roberto P. Falcão, 31

Follicular Pattern of Bone Marrow Involvement by Follicular Lymphoma

Emina Torlakovic, Goran Torlakovic, and Richard D. Brunning, 780

Hodgkin Disease in Adult and Juvenile Groups From Two Different Geographic Regions in Brazil: Characterization of Clinicopathologic Aspects and Relationship With Epstein-Barr Virus Infection

Deilson Elgui de Oliveira, Maura M. Bacchi, Eliane S. Abreu, Ligia Niero-Melo, and Carlos E. Bacchi, 25

How Useful Are CBC and Reticulocyte Reports to Clinicians?

Linda M. Sandhaus and Pamela Meyer, 787

Immunohistochemical Study of the Bone Marrow Lesions of Systemic Mastocytosis. An: Expression of Stem Cell Factor by Lesional Mast Cells

Cem Akin, Elaine S. Jaffe, Mark Raffeld, Arnold S. Kirshenbaum, Trisha Daley, Pierre Noel, and Dean D. Metcalfe, 242

Lack of Surface Immunoglobulin Light Chain Expression by Flow Cytometric Immunophenotyping Can Help Diagnose Peripheral B-Cell Lymphoma

Shiyong Li, James R. Eshleman, and Michael J. Borowitz, 229

Langerhans Cell Histiocytosis: Immunohistochemical Expression of Fascin, a Dendritic Cell Marker

Geraldine S. Pinkus, Mark A. Lones, Fumio Matsumura, Shigeko Yamashiro, Jonathan W. Said, and Jack L. Pinkus, 335

Peripheral T-Cell Lymphoma Arising in the Liver

Mirela Stancu, Dan Jones, Francisco Vega, and L. Jeffrey Medeiros, 574

Platelet Counting by the Coulter LH 750, Sysmex XE 2100, and Advia 120: A Comparative Analysis Using the RBC/Platelet Ratio Reference Method

Linda M. Sandhaus, Ebenezer S. Osei, Neeta N. Agrawal, Christine A. Dillman, and Howard J. Meyerson, 235

t(14;18) and bcl-2 Expression Are Present in a Subset of Primary Cutaneous Follicular Lymphoma. The: Association With Lower Grade

Lyle C. Lawnicki, Dennis D. Weisenburger, Patricia Aoun, Wing C. Chan, Robert S. Wickert, and Timothy C. Greiner, 765

Terminal Deoxynucleotidyl Transferase–Positive Lymphoid Cells in Reactive Lymph Nodes From Children With Malignant Tumors: Incidence, Distribution Pattern, and Immunophenotype in 26 Patients

Mihaela Onciu, Robert B. Lorsbach, E. Charlene Henry, and Frederick G. Behm, 248

Validation of the Diesse Mini-Ves Erythrocyte Sedimentation Rate (ESR) Analyzer Using the Westergren ESR Method in Patients With Systemic Inflammatory Conditions

Marc R. Happe, Daniel F. Battafarano, David P. Dooley, Thomas A. Rennie, Frederick T. Murphy, Thomas J. Casey, and John A. Ward, 14

Valproate-Associated Dysmyelopoiesis in Elderly Patients

Chi-chiu So and Kit-fai Wong, 225

Value of Interphase FISH for the Diagnosis of t(11;14)(q13;q32) on Skin Lesions of Mantle Cell Lymphoma

Pierre Dubus, Paul Young, Marie Beylot-Barry, Marc A. Belaud-Rotureau, Philippe Courville, Béatrice Vergier, Marie Parrens, Bernard Lenormand, Pascal Joly, and Jean P. Merlio, 832

INFORMATICS

Original Articles

Characteristics of Educational Software Use in 106 Clinical Laboratories

Michael L. Astion, Sara Kim, Enrique Terrazas, and Amanda Nelson, 494

Informatics Training in Pathology Residency Programs

Walter H. Henricks and James C. Healy, 172

Integration of Text, Image, and Graphic Data From Different Sources in Laboratory Reports: Example of Kidney Stone Reporting System

Shang-Che Lin, Frederick Van Lente, Adam Fadlalla, and Walter H. Henricks, 179

IMMUNOPATHOLOGY

Original Article

Anti-gp43 Antibodies in the Cerebrospinal Fluid of Patients With Central Nervous System Involvement by Paracoccidioidomycosis

Sérgio M. de Almeida, Flávio Queiroz-Telles, Elvira M. Doi, Margaret Ono, and Lineu C. Werneck, 864

MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

Comparison of the Automated Mycobacteria Growth Indicator Tube System (BACTEC 960/MGIT) With Löwenstein-Jensen Medium for Recovery of Mycobacteria From Clinical Specimens

Dongsi Lu, Bobbi Heeren, and W. Michael Dunne, 542

Delayed Diagnosis of Osseous Blastomycosis in Two Patients Following Environmental Exposure in Nonendemic Areas

Shailaja R. Veligandla, Steven H. Hinrichs, Mark E. Rupp, Elizabeth A. Lien, James R. Neff, and Peter C. Iwen, 536

Evaluation of the Status of Laboratory Practices and the Need for Continuing Education in Medical Mycology

Eunice R. Rosner, Errol Reiss, Nancy G. Warren, H. Jean Shadomy, and Harvey B. Lipman, 278

Practical Therapeutic Application of the Oxoid PBP2' Latex Agglutination Test for the Rapid Identification of Methicillin-Resistant *Staphylococcus aureus* in Blood Cultures

Elizabeth M. Marlowe, Andrea J. Linscott, Meganne Kanatani, and David A. Bruckner, 287

Rapid and Accurate Identification of Mycobacteria by Sequencing Hypervariable Regions of the 16S Ribosomal RNA Gene

Xiang Y. Han, Audrey S. Pham, Jeffrey J. Tarrand, Pramila K. Sood, and Rajyalakshmi Luthra, 796

PATHOLOGY PATTERNS REVIEWS

Benign Fibro-osseous Diseases of the Maxillofacial Bones: A Review and Differential Diagnosis

Faizan Alawi, S50

Blood Substitutes: What They Are and How They Might Be Used

Qun Dong and Christopher P. Stowell, S71

Cardiac Markers for Myocardial Infarction: A Brief Review

Kent Lewandrowski, Ahchean Chen, and James Januzzi, S93

Cutaneous Adnexal Neoplasms

Craig A. Storm and John T. Seykora, S33

Expression of Anaplastic Lymphoma Kinase in Non-Hodgkin's Lymphomas and Other Malignant Neoplasms: Biological, Diagnostic, and Clinical Implications

Mariusz A. Wasik, S81

HIV Update: Diagnostic Tests and Markers of Disease Progression and Response to Therapy

Mancong Zhang and James Versalovic, S26

Laboratory Testing for Viral Hepatitis

Kenneth R. Harris and Anand S. Dighe, S18

Molecular Mutations in Thyroid Carcinogenesis

Jennifer L. Hunt, S116

Review of Fine-Needle Aspiration Cytology of Salivary Gland Neoplasms, With Emphasis on Differential Diagnosis

Perkins Mukunyadzzi, S109

Tuberculosis: Advances in Laboratory Diagnosis and Drug Susceptibility Testing

Quentin Eichbaum and Eric J. Rubin, S3

subject index

Index of Issues: July, pp 1-152; August, pp 153-312; September, pp 313-480; October, pp 481-660; November, pp 661-812; December, pp 813-972. Page numbers beginning with S denote articles in the December Pathology Patterns Reviews.

A

- Abstracts of Papers, 292, 464, 617, 959
- Acetic acid, glacial, reprocessing unsatisfactory ThinPrep cervico-vaginal specimens with and without, efficacy of, effect on Hybrid Capture II human papillomavirus testing and clinical follow-up, 727
- Acid-fast bacillus staining, for *Mycobacterium tuberculosis*, S4
- Acinar cell cystadenoma, of pancreas, unifocal, 211
- Acinic cell carcinoma, S107
- Acute phase reaction, elevated fibrinogen in, prolongs reptilase time but typically not thrombin time, 263
- Adenocarcinoma
 - gastric
 - p53 and Ki-67 immunohistochemical analysis for preoperative diagnosis of extremely well-differentiated, 683
 - paranuclear E-cadherin in, 887
 - of lung, O-glycosylation pattern differences between squamous cell carcinoma and, 749
 - metastatic, thyroid transcription factor-1 and hepatocyte antigen immunohistochemical analysis in differential diagnosis of hepatocellular carcinoma, renal cell carcinoma, adrenal cortical carcinoma and, comparison of, 911
 - of pancreas
 - cyclooxygenase 2 expression in, immunohistochemical analysis with automated cellular imaging, 194
 - pancreatic ductal, novel epithelial and novel stromal marker of, identified by global expression microarrays, immunohistochemical validation of, 52
 - polymorphous low-grade, S109
- Adenoid cystic carcinoma, S109
- Adenoma
 - carcinoma ex pleomorphic, S112
 - monomorphic, S103
 - pleomorphic, S102
- Adhesion molecules, expression of CD44s and CD44v6 isoforms in squamous cell carcinoma of the supraglottic larynx, clinicopathologic significance of, 67
- Adnexal neoplasms, cutaneous, S33
- Aged, valproate-associated dysmyelopoiesis in the, 225
- Agranulocytosis, CD117 and CD11b expression in bone marrow can differentiate acute promyelocytic leukemia from recovering benign myeloid proliferation, 31
- American Society for Colposcopy and Cervical Pathology (ASCCP), patient management guidelines, Pap test specimen adequacy and quality indicators, 714
- Anandamide, vanilloid receptors in health and disease, 110
- Anaplastic lymphoma kinase (ALK), expression in non-Hodgkin lymphoma and other malignant neoplasms, biological, diagnostic, and clinical implications, S81
- Anemia, drug-induced hemolytic, cross-reactivity of cefotetan and ceftriaxone antibodies associated with, 256
- Aneurysmal bone cyst, S65
- Anorexia nervosa, bone marrow changes in, as correlated with amount of weight loss and not with other clinical findings, 582
- Antibiotics. *See also* Drug resistance
 - cross-reactivity of cefotetan and ceftriaxone antibodies associated with hemolytic anemia, with cephalosporins and penicillin, 256
 - susceptibility testing for *Mycobacterium tuberculosis*, S3, S11
- Anticardiolipin antibody assays, assessing usefulness of, cautious approach suggested by high variation and limited consensus in multilaboratory setting, 548
- Anti-gp43 antibodies, in cerebrospinal fluid of patients with central nervous system involvement by paracoccidioidomycosis, 864
- Antiphospholipid antibodies, anticardiolipin antibody assays for detecting, assessing usefulness of, 548
- Anti-PSA, polyclonal is more sensitive but less specific than monoclonal, implications for diagnostic prostatic pathology, 202
- Apoptosis
 - CAS (cellular apoptosis susceptibility) gene expression in ovarian carcinoma, correlation with 20q13.2 copy number and cyclin D1, p53, and Rb protein expression, 922
 - muscle-invasive transitional cell carcinoma of the bladder, kinetic profiles by topographic compartments in, role of *TP53* and *NFI* genes, 93
 - rate in peripheral T-cell lymphomas, study using tissue microarray with validation on full tissue sections, 328
- Archival cytologic material, proteomic evaluation of, using SELDI affinity mass spectrometry, potential for diagnostic applications, 825, 870
- Australia, von Willebrand disease type 2N (Normandy) in, identification of, a cross-laboratory investigation using different methods, 269

AutoCyte Prep, dual sampling of the endocervix, and its impact on endocervical adequacy of, 41

Automated hematology analyzers

CBC and reticulocyte reports' usefulness to clinicians, 787
platelet counting by Coulter LH 750, Sysmex XE 2100, and Advia 120, comparative analysis using RBC/platelet ratio method, 235

Automation

location-guided screening of liquid-based cervical cytology specimens, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399

in *Mycobacterium tuberculosis* diagnosis, S9

AutoPap, location-guided screening of liquid-based cervical cytology specimens, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399

B

BACTEC 960 Mycobacteria Indicator Tube system, for recovery of mycobacteria from clinical specimens, comparison with Löwenstein-Jensen medium, 542

Barrett esophagus, gene amplification and protein overexpression of c-erb-b2 in, and its precursor lesions, 60

bcl-1, and CD5- mantle cell lymphoma, 216

bcl-2

in CD5+ follicular lymphoma, 589

in a subset of primary cutaneous follicular lymphoma, association with lower grade, 765

μ -BCR-ABL, expression in chronic neutrophilic leukemia, 842

Bethesda System, terminology changes for cervical cytology reporting, 714

Biochemical parameters, marathon running's effects on, 856

Bladder, muscle-invasive transitional cell carcinoma of, kinetic profiles by topographic compartments in, role of *TP53* and *NF1* genes, 93

Blastomyces dermatitidis, in osseous blastomycosis cases outside endemic area, 536

Blastomycosis, osseous, delayed diagnosis in two patients following environmental exposure in nonendemic areas, 536

Blood cultures, methicillin-resistant *Staphylococcus aureus* in, Oxoid PBP2' latex agglutination test for rapid identification of, practical therapeutic application of, 287

Blood substitutes, what they are and how they might be used, S71

Blood transfusion. *See* Transfusion

Bone marrow

CD117 and CD11b expression in, as differentiating acute promyelocytic leukemia from recovering benign myeloid proliferation, 31

changes in anorexia nervosa, as correlated with amount of weight loss and not with other clinical findings, 582

follicular pattern of infiltration by follicular lymphoma, 780

immunophenotypes of small B-cell neoplasms in primary lymph node and concurrent samples of blood or, comparison of, 758

lesions of systemic mastocytosis, immunohistochemical study of, 242

Book Reviews, 142, 307, 469, 601, 802, 964

Branched DNA-mediated phosphatase detection, for *Mycobacterium tuberculosis* diagnosis, S7

Brazil, Hodgkin disease in adult and juvenile groups from two different geographic regions of, characterization of clinicopathologic aspects and relationship with Epstein-Barr virus infection, 25

Breast cancer

E-cadherin expression correlating with primary breast carcinoma infiltration pattern and type of systemic metastases, 425
differential expression of high-affinity melatonin receptors (MT1) in normal and malignant breast tissue, 451

HER-2/neu assay sensitivity and scoring on formalin-fixed and paraffin-processed cell lines and breast tumors, comparative study involving results from laboratories in 21 countries, 408

HER-2/neu overexpression in invasive breast carcinoma, interobserver reproducibility of, using DAKO HercepTest, 693

hormonal receptors expression in epithelial cells of mammary phyllodes tumors correlates with pathologic grade of tumor, multicenter study of 143 cases, 522

practical considerations in pathologic diagnosis of core needle biopsies, 101

reliability of diagnosis of mucinous lesions by core needle biopsy, 82

Brown tumor, S65

C

E-Cadherin

expression correlating with primary breast carcinoma infiltration pattern and type of systemic metastases, 425

paranuclear, in gastric adenocarcinoma, 887

Capsaicin, vanilloid receptors in health and disease, 110

Carbamazepine, immunoassays for antiepileptic drugs, performance characteristics of four, on the IMMULITE 2000 automated analyzer, 124

Carcinoma. *See also* Adenocarcinoma

acinic cell, S107

adenoid cystic, S109

Barrett, gene amplification and protein overexpression of c-erb-b2 in, and its precursor lesions, 60

of bladder, muscle-invasive transitional cell, kinetic profiles by topographic compartments in, role of *TP53* and *NF1* genes, 93

of breast

E-cadherin expression correlating with primary infiltration pattern and type of systemic metastases, 425

HER-2/neu overexpression in invasive, interobserver reproducibility of, using DAKO HercepTest, 693

mucinous lesion diagnosis by core needle biopsy, 82

practical considerations in pathologic diagnosis of core needle biopsies, 101

gastric, pancreatic, and esophageal, CD97, but not closely related EGF-TM7 family member EMR2, is expressed in, 699

of kidney

renal cell, comparison of standardized and nonstandardized nuclear grade to predict outcome among 2,042 patients, 827, 877

- renal cell, frozen section evaluation of parenchymal margins in nephron-sparing surgery, potential pitfalls of, 903
- renal clear cell, MUC1 expression is correlated with nuclear grade and tumor progression in pT1, 47
- of larynx, squamous cell of the supraglottic, expression of CD44s and CD44v6 isoforms in, clinicopathologic significance of, 67
- of lung, O-glycosylation pattern differences between adenocarcinoma and squamous cell, 749
- malignant epithelial cells in effusions, flow cytometric immunophenotyping for detection of, 85
- microcystic adnexal, S36
- mucoepidermoid
- high-grade, S110
 - low-grade, S106
- ovarian, CAS (cellular apoptosis susceptibility) gene expression in, correlation with 20q13.2 copy number and cyclin D1, p53, and Rb protein expression, 922
- pilomatrical, S42
- of prostate, carcinoma extent in needle biopsy tissue in prediction of whole gland tumor volume in a screening population, 442
- of salivary duct, S111
- of thyroid
- focal features of papillary, in fine-needle aspiration material, are strongly associated with papillary carcinoma at resection, 208
 - medullary, S122
 - papillary, S117
 - RET immunostaining in follicular lesions, 165, 186
- thyroid transcription factor-1 and hepatocyte antigen immunohistochemical analysis, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, renal cell carcinoma, and adrenal cortical carcinoma, comparison of, 911
- Cardiac markers
- marathon running's effects on hematologic and biochemical laboratory parameters, including, 856
 - measurement of, 354
 - for myocardial infarction, a brief review, S93
- Cardiac surgery
- cardiac markers following, S97
 - leukocyte-reduced transfusions in, results of an implementation trial, 376
- CAS (cellular apoptosis susceptibility) gene, expression in ovarian carcinoma, correlation with 20q13.2 copy number and cyclin D1, p53, and Rb protein expression, 922
- C cells (parafollicular cells), tumors of, S121
- CD4+
- decision-support system for flow cytometry immunophenotyping, 567
 - T lymphocyte counts in HIV infection, S29
- CD5
- CD5+ follicular lymphoma, a clinicopathologic study of three cases, 589
 - CD5- mantle cell lymphoma, 216
- CD11b, and CD117 expression in bone marrow, as differentiating acute promyelocytic leukemia from recovering benign myeloid proliferation, 31
- CD30+ anaplastic large cell lymphoma, 773, S81
- CD33, intensity differences between various myeloid neoplasms, 560
- CD44, expression of CD44s and CD44v6 isoforms in squamous cell carcinoma of the supraglottic larynx, clinicopathologic significance of, 67
- CD97, but not closely related EGF-TM7 family member EMR2, is expressed in gastric, pancreatic, and esophageal carcinomas, 699
- CD117
- and CD11b expression in bone marrow, as differentiating acute promyelocytic leukemia from recovering benign myeloid proliferation, 31
 - testing for gastrointestinal stromal tumors, standardization of, 163, 669
- Cefotetan antibody, cross-reactivity with cephalosporins and penicillin, 256
- Ceftriaxone antibody, cross-reactivity with cephalosporins and penicillin, 256
- Celiac disease, histologic follow-up of people on gluten-free diet, slow and incomplete recovery from, 459
- Cell lines, HER-2/neu assay sensitivity and scoring on formalin-fixed and paraffin-processed cell lines and breast tumors, comparative study involving results from laboratories in 21 countries, 408
- Cellular apoptosis susceptibility (CAS) gene, expression in ovarian carcinoma, correlation with 20q13.2 copy number and cyclin D1, p53, and Rb protein expression, 922
- Cementoblastoma, S62
- Cementoma, familial gigantiform, S59
- Central giant cell granuloma, S64
- Central nervous system, involvement by paracoccidioidomycosis, anti-gp43 antibodies in cerebrospinal fluid of patients with, 864
- Cephalosporins, cross-reactivity of cefotetan and ceftriaxone antibodies with, 256
- c-erb-b2, gene amplification and protein overexpression of, in Barrett carcinoma and its precursor lesions, 60
- Cerebrospinal fluid, of patients with central nervous system involvement by paracoccidioidomycosis, anti-gp43 antibodies in, 864
- Cervical cytology. *See also* Papanicolaou smear
- dual sampling of endocervix, and its impact on AutoCyte Prep endocervical adequacy, 41
 - location-guided screening of liquid-based cervical cytology specimens, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399
- Chemiluminescence, for *Mycobacterium tuberculosis* diagnosis, S7
- Cherubism, S65
- Chinese medicines, digoxin-like immunoreactive substances, impact on therapeutic drug monitoring of digoxin, 132
- Chondroid syringoma, S39
- Chromatography, in *Mycobacterium* species identification, S10
- Chromosome 1p, allelic loss not observed in dysembryoplastic neuroepithelial tumors, by fluorescence in situ hybridization, 512
- CK-MB, as myocardial infarction marker, S94
- Clark logistic regression model, risk assessment in localized primary cutaneous melanoma, Southwest Oncology Group study evaluating nine factors and test of, 489, 504
- Clusterin, as widely expressed in systemic anaplastic large cell lymphoma, but fails to differentiate primary from secondary cutaneous anaplastic large cell lymphoma, 773

- Colloid, reliability of diagnosis of mucinous lesions of the breast by core needle biopsy, 82
- Colorimetry, for *Mycobacterium tuberculosis* diagnosis, S7
- Complete blood count (CBC) reports, usefulness to clinicians of, 787
- Computers
- decision-support system for flow cytometry immunophenotyping, 567
 - educational software used in 106 clinical laboratories, characteristics of, 494
 - location-guided screening of liquid-based cervical cytology specimens, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399
- Continuing education, in medical mycology, evaluation of need for, 167, 278
- Cooperative Human Tissue Network, analysis of molecular quality of human tissues, an experience from the, 733
- Core needle biopsy, of breast
- practical considerations in pathologic diagnosis of, 101
 - reliability of diagnosis of mucinous lesions by, 82
- Correspondence and Corrections, 144, 305, 470, 602, 804, 965
- Cox regression model, risk assessment in localized primary cutaneous melanoma, Southwest Oncology Group study evaluating nine factors and test of Clark logistic regression model, 489, 504
- C-reactive protein, high-sensitivity, as myocardial infarction marker, S96
- Creatine kinase, as myocardial infarction marker, S93
- Cross-reactivity, of cefotetan and ceftriaxone antibodies, with cephalosporins and penicillin, 256
- Cyclin D1
- CAS (cellular apoptosis susceptibility) gene expression in ovarian carcinoma, correlation with 20q13.2 copy number, p53, and Rb protein expression, and, 922
 - immunoreactivity in skin lesions of mantle cell lymphoma, 832
- Cyclooxygenase 2, expression in pancreatic adenocarcinoma and pancreatic intraepithelial neoplasms, immunohistochemical analysis with automated cellular imaging, 194
- Cylindroma, S44
- Cystadenoma, of pancreas, unilocular acinar cell, 211
- Cytokeratin 19, in follicular lesions of thyroid, 165, 186
- Cytokines, multiplexed fluorescent microsphere immunoassay in analysis of, 346
- Cytology. *See also* Cervical cytology
- five antibodies as markers in diagnosis of melanoma in cytologic preparations, comparison of, 930
 - intraoperative, as increasing diagnostic accuracy of frozen sections for confirmation of various tissues in parathyroid region, 895
 - thyroid transcription factor-1 and hepatocyte antigen immunohistochemical analysis, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, renal cell carcinoma, and adrenal cortical carcinoma, comparison of, 911
- D**
- DAKO HercepTest, HER-2/neu overexpression in invasive breast carcinoma, interobserver reproducibility of, using, 693
- Data integration, in laboratory reporting, an example of kidney stone reporting, 179
- Decision-support system, for flow cytometry immunophenotyping, 567
- Dendritic cells, of lymphoid tissues and peripheral blood, fascin as marker for, 335
- Diesse Mini-Ves erythrocyte sedimentation rate analyzer, validation of, using Westergren ESR method in patients with systemic inflammatory conditions, 11, 14
- Digoxigenin, in *Mycobacterium tuberculosis* diagnosis, S7
- Digoxin, therapeutic drug monitoring of, digoxin-like immunoreactive substances, impact in, 132
- Digoxin-like immunoreactive substances, endogenous and exogenous, impact on therapeutic drug monitoring of digoxin, 132
- DNA
- analysis of molecular quality of human tissues, an experience from Cooperative Human Tissue Network, 733
 - mycobacteria, rapid and accurate identification by sequencing hypervariable regions of the 16S ribosomal RNA gene, 796
- DNA ploidy, measurement on liquid-based smears, showing conflicting results between cytology and high-risk human papillomavirus typing, usefulness of, 708
- DNA profiling, blood transfusion's effect on, 382
- Drug resistance
- in HIV infection, S26
 - methicillin-resistant *Staphylococcus aureus* in blood cultures, Oxoid BPP2' latex agglutination test for rapid identification of, 287
 - susceptibility testing for *Mycobacterium tuberculosis*, S3, S11
- Dysembryoplastic neuroepithelial tumors, chromosome 1p allelic loss not observed in, by fluorescence in situ hybridization, 512
- Dysfibrinogenemia, reptilase time and thrombin time in assessing for, 263
- Dysmyelopoiesis, valproate-associated, in the aged, 225
- Dyspepsia, chronic inactive gastritis, and coccoid *Helicobacter pylori*, in patients treated for gastroesophageal reflux disease or with *H pylori* eradication therapy, 719
- Dysplasia
- fibrous, S51
 - gene amplification and protein overexpression of c-erb-b2 in Barrett carcinoma and its precursor lesions, 60
 - osseous, S56
- E**
- Eccrine porocarcinoma, S38
- Eccrine spiradenocarcinoma, S34
- Eccrine spiradenoma, S34
- Educational software, used in clinical laboratories, characteristics of, 494
- Electrophoresis, gel, molecular quality of human tissues, an experience from the Cooperative Human Tissue Network, 733
- EMR2, CD97, but not closely related EGF-TM7 family member, is expressed in gastric, pancreatic, and esophageal carcinomas, 699
- Endocervix, dual sampling of, and its impact on AutoCyt Prep endocervical adequacy, 41

Epidermal growth factor-7 transmembrane (EGF-TM7), CD97, but not closely related family member EMR2, is expressed in gastric, pancreatic, and esophageal carcinomas, 699

Epilepsy, performance characteristics of four immunoassays for antiepileptic drugs, on the IMMULITE 2000 automated analyzer, 124

Epstein-Barr virus
in angioimmunoblastic T-cell lymphoma, 848

Hodgkin disease in adult and juvenile groups from two different geographic regions of Brazil, characterization of clinico-pathologic aspects and relationship with infection with, 25

Erythrocyte indices, usefulness of reports to clinicians, 787

Erythrocyte sedimentation rate, validation of Diesse Mini-Ves analyzer using Westergren ESR method in patients with systemic inflammatory conditions, 11, 14

Escherichia coli, gnotobiotic piglets developing thrombotic microangiopathy after oral infection with enterohemorrhagic, 323, 364

Esophagus, CD97, but not closely related EGF-TM7 family member EMR2, is expressed in carcinoma of, 699

Estrogen receptor
expression in epithelial cells of mammary phyllodes tumors correlates with pathologic grade of tumor, multicenter study of 143 cases, 522

tissue array technology for testing interlaboratory and interobserver reproducibility of immunohistochemical analysis of, in large multicenter trial, 675

Evidence-based medicine, 167

F

Factor VIII assays, von Willebrand disease type 2N (Normandy), identification in Australia, a cross-laboratory investigation using different methods, 269

Fascin, expression in Langerhans cell histiocytosis, 335

Fibrinogen, elevated, in acute phase reaction, prolongs reptilase time but typically not thrombin time, 263

Fibroma
central odontogenic, S63

ossifying, S54

Fibro-osseous diseases, of the maxillofacial bones, benign, review and differential diagnosis, S50

Fibrous dysplasia, S51

Fine-needle aspiration biopsy
adequacy in thyroid, evidence-based criteria for, 518

focal features of papillary carcinoma of thyroid in material from, are strongly associated with papillary carcinoma at resection, 208

intraoperative cytology as increasing diagnostic accuracy of frozen sections for confirmation of various tissues in parathyroid region, 895

malignant melanoma cytopathology, in conventional and liquid-based smears, 435

of nonteratomatous germ cell tumors of the mediastinum, 418

proteomic evaluation of archival cytologic material using SELDI affinity mass spectrometry, potential for diagnostic applications, 825, 870

of salivary gland neoplasms, with emphasis on differential diagnosis, S100

thyroid transcription factor-1 and hepatocyte antigen immunohistochemical analysis, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, renal cell carcinoma, and adrenal cortical carcinoma, comparison of, 911

Flow cytometry

CD5 expression in mantle cell lymphoma, 216

CD5+ follicular lymphoma, a clinicopathologic study of three cases, 589

immunophenotyping by
CD117 and CD11b expression in bone marrow can differentiate acute promyelocytic leukemia from recovering benign myeloid proliferation, 31

decision-support system for, 567

malignant epithelial cells in effusions detected by, 85

of small B-cell neoplasms in primary lymph node and concurrent blood or marrow samples, 758

surface immunoglobulin light chain, lack of expression by, in diagnosis of peripheral B-cell lymphoma, 229

platelet counting by Coulter LH 750, Sysmex XE 2100, and Advia 120, compared with reference platelet counts by, 235

qualitative, CD33 intensity differences between various myeloid neoplasms, 560

Fluorescence in situ hybridization (FISH)

chromosome 1p allelic loss not observed in dysembryoplastic neuroepithelial tumors, 512

interphase, for diagnosis of t(11;14)(q13;q32) on skin lesions of mantle cell lymphoma, 832

Fluorescent microsphere immunoassay, multiplexed, in cytokine response determination, 346

Follicular lesions

CD5+ follicular lymphoma, a clinicopathologic study of three cases, 589

follicular pattern of bone marrow involvement by follicular lymphoma, 780

t(14;18) and bcl-2 expression are present in a subset of primary cutaneous follicular lymphoma, association with lower grade, 765

of thyroid, S117

RET immunostaining in, 165, 186

Food and Drug Administration (FDA), on testing for KIT (CD117) in gastrointestinal stromal tumors, 163

Forensics, DNA profiling as not affected by transfusions, 382

Frozen sections

in evaluation of parenchymal margins in nephron-sparing surgery, potential pitfalls of, 903

intraoperative cytology as increasing diagnostic accuracy of, for confirmation of various tissues in parathyroid region, 895

Fuhrman grading, comparison of standardized and nonstandardized nuclear grade of renal cell carcinoma to predict outcome among 2,042 patients, 827, 877

Fungal infection, osseous blastomycosis, delayed diagnosis in two patients following environmental exposure in nonendemic areas, 536

G

Gastritis, chronic inactive, and coccoid *Helicobacter pylori*, in patients treated for gastroesophageal reflux disease or with *H pylori* eradication therapy, 719

- Gastroesophageal reflux disease, chronic inactive gastritis, and coccoid *Helicobacter pylori*, in patients treated for, or with *H pylori* eradication therapy, 719
- Gastrointestinal tumors
- CD97, but not closely related EGF-TM7 family member EMR2, is expressed in carcinoma, 699
 - p53 and Ki-67 immunohistochemical analysis of preoperative diagnosis of extremely well-differentiated gastric adenocarcinoma, usefulness of, 683
 - paranuclear E-cadherin in gastric adenocarcinoma, 887
 - testing for KIT (CD117) in stromal tumors, 163, 669
- Gelatinous degeneration of the bone marrow, in anorexia nervosa, 582
- Gemtuzumab ozogamicin, CD33 intensity differences between various myeloid neoplasms, 560
- Gene amplification, and protein overexpression of c-erb-b2 in Barrett carcinoma and its precursor lesions, 60
- Gene rearrangement, and surface immunoglobulin light chain lack of expression by flow cytometric immunophenotyping, 229
- Germ cell tumors, of the mediastinum, nonteratomatous, fine-needle aspiration biopsy of, 418
- Giant cell granuloma, central, S64
- Glacial acetic acid, reprocessing unsatisfactory ThinPrep cervicovaginal specimens with and without, efficacy of, effect on Hybrid Capture II human papillomavirus testing and clinical follow-up, 727
- Gleevec, in gastrointestinal stromal tumor treatment, 163
- Gluten-free diet, histologic follow-up of people with celiac disease on, slow and incomplete recovery, 459
- Glycosylation, O-glycosylation pattern differences between lung squamous cell carcinoma and adenocarcinoma, 749
- Gnotobiotic piglets, developing thrombotic microangiopathy after oral infection with enterohemorrhagic *Escherichia coli*, 323, 364
- Golgi apparatus, paranuclear E-cadherin staining colocalizing with *Griffonia simplicifolia* lectin II in, in gastric adenocarcinoma, 887
- gp43, anti-gp43 antibodies in cerebrospinal fluid of patients with central nervous system involvement by paracoccidioidomycosis, 864
- Granuloma, central giant cell, S64
- Granulomatosis, pulmonary lymphomatoid, cytologic lymphocyte-associated antigen expression in, 391
- Griffonia simplicifolia*, paranuclear E-cadherin staining colocalizing with, in gastric adenocarcinoma, 887
- ## H
- Head and neck neoplasms, expression of CD44s and CD44v6 isoforms in squamous cell carcinoma of the supraglottic larynx, clinicopathologic significance of, 67
- Heat shock protein 47, as novel stromal marker of pancreatic ductal adenocarcinoma, identified by global expression microarrays, immunohistochemical validation of, 52
- Heat shock protein 90, S86
- Helicobacter pylori*, chronic inactive gastritis, and coccoid, in patients treated for gastroesophageal reflux disease or with *H pylori* eradication therapy, 719
- Hematologic parameters, marathon running's effects on, 856
- Hematologic toxicity, valproate-associated dysmyelopoiesis in the aged, 225
- Hemoglobin, in blood substitutes, S71
- Hemoglobin-based oxygen carriers, S73
- Hemolytic uremic syndrome, gnotobiotic piglet model for enterohemorrhagic *Escherichia coli*-induced, 323, 364
- Hepatitis
- steatohepatitis, role of liver biopsy in diagnosis of hepatic iron overload in the era of genetic testing, 73
 - viral, laboratory testing for, S18
- Hepatitis A virus, laboratory testing for, S18
- Hepatitis B virus, laboratory testing for, S20
- Hepatitis C virus, laboratory testing for, S22
- Hepatitis E virus, laboratory testing for, S23
- Hepatocyte antigen, and thyroid transcription factor-1 immunohistochemical analysis, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, renal cell carcinoma, and adrenal cortical carcinoma, comparison of, 911
- HER-2/neu
- assay sensitivity and scoring on formalin-fixed and paraffin-processed cell lines and breast tumors, comparative study involving results from laboratories in 21 countries, 408
 - overexpression in invasive breast carcinoma, interobserver reproducibility of, using DAKO HercepTest, 693
- Heterogeneity, tumor, muscle-invasive transitional cell carcinoma of the bladder, kinetic profiles by topographic compartments in, role of *TP53* and *NF1* genes, 93
- HFE* mutations, role of liver biopsy in diagnosis of hepatic iron overload in the era of genetic testing, 73
- Hidradenocarcinoma, S43
- Hidradenoma, nodular, S43
- Hydrocystoma, S46
- Histiocytosis, Langerhans cell, immunohistochemical expression of fascin, a dendritic cell marker, 335
- HLA-DQA1, and transfusion's effect on DNA profiling, 382
- HMB-45, as marker in diagnosis of melanoma in cytologic preparations, 930
- Hodgkin disease, in adult and juvenile groups from two different geographic regions of Brazil, characterization of clinicopathologic aspects and relationship with Epstein-Barr virus infection, 25
- Human immunodeficiency virus, diagnostic tests, markers of disease progression, and response to therapy, S26
- Human papillomavirus
- high-risk, DNA ploidy measurement on liquid-based smears showing conflicting results between cytology and testing for, 708
 - reprocessing unsatisfactory ThinPrep cervicovaginal specimens with and without glacial acetic acid, efficacy of, effect on clinical follow-up and Hybrid Capture II testing for, 727
- Human tissues, analysis of molecular quality of, an experience from Cooperative Human Tissue Network, 733
- Hürthle cell lesions, of thyroid
- molecular mutations in, S121
 - RET and cytokeratin 19 immunostaining for, 165, 186
- Hybrid Capture II
- DNA ploidy measurement on liquid-based smears, showing conflicting results between cytology and high-risk human papillomavirus typing, usefulness of, 708
 - reprocessing unsatisfactory ThinPrep cervicovaginal specimens with and without glacial acetic acid, efficacy of, effect on

- clinical follow-up and human papillomavirus testing by, 727
- H₂ perparathyroidism, brown tumor in, S65
- I**
- IDEF3 process schematic, in Pap test turnaround time improvement, 527
- IgH* gene rearrangement, in CD5+ follicular lymphoma, 589
- Image analysis, cyclooxygenase 2 expression in pancreatic adenocarcinoma and pancreatic intraepithelial neoplasms, immunohistochemical analysis with automated cellular imaging, 194
- Image cytometry, DNA ploidy measurement on liquid-based smears, showing conflicting results between cytology and high-risk human papillomavirus typing, usefulness of, 708
- Immature reticulocyte fraction, usefulness of reports to clinicians, 787
- IMMULITE 2000 automated analyzer, performance characteristics of four immunoassays for antiepileptic drugs on the, 124
- Immunoassay
for antiepileptic drugs, performance characteristics of four, on the IMMULITE 2000 automated analyzer, 124
cardiac marker measurement, 354
multiplexed fluorescent microsphere, in cytokine response determination, 346
- Immunocytochemistry, five antibodies as markers in diagnosis of melanoma in cytologic preparations, comparison of, 930
- Immunodeficiency diseases
cytokine production in, 346
human immunodeficiency virus, diagnostic tests, markers of disease progression, and response to therapy, S26
- Immunoglobulin light chain, surface, lack of expression of, by flow cytometric immunophenotyping, in diagnosis of peripheral B-cell lymphoma, 229
- Immunohistochemistry
E-cadherin
expression correlating with primary breast carcinoma infiltration pattern and type of systemic metastases, 425
paranuclear, in gastric adenocarcinoma, 887
CD5 expression in mantle cell lymphoma, 216
CD5+ follicular lymphoma, a clinicopathologic study of three cases, 589
chronic inactive gastritis, and coccoid *Helicobacter pylori*, in patients treated for gastroesophageal reflux disease or with *H. pylori* eradication therapy, 719
clusterin as widely expressed in systemic anaplastic large cell lymphoma, but fails to differentiate primary from secondary cutaneous anaplastic large cell lymphoma, 773
cyclooxygenase 2 expression in pancreatic adenocarcinoma and pancreatic intraepithelial neoplasms, immunohistochemical analysis with automated cellular imaging, 194
fascin expression in Langerhans cell histiocytosis, 335
gene amplification and protein overexpression of c-erb-b2 in Barrett carcinoma and its precursor lesions, 60
HER-2/neu assay sensitivity and scoring on formalin-fixed and paraffin-processed cell lines and breast tumors, comparative study involving results from laboratories in 21 countries, 408
HER-2/neu overexpression in invasive breast carcinoma, interobserver reproducibility of, using DAKO HercepTest, 693
high-affinity melatonin receptors (MT1), differential expression of, in normal and malignant breast tissue, 451
hormonal receptors expression in epithelial cells of mammary phyllodes tumors correlates with pathologic grade of tumor, multicenter study of 143 cases, 522
MUC1 expression is correlated with nuclear grade and tumor progression in pT1 renal clear cell carcinoma, 47
p53 and Ki-67 analysis for preoperative diagnosis of extremely well-differentiated gastric adenocarcinoma, 683
peripheral T-cell lymphoma, arising in the liver, 574
polyclonal anti-PSA is more sensitive but less specific than monoclonal anti-PSA, 202
sea urchin fascin homolog and heat shock protein 47, as novel epithelial and novel stromal marker of pancreatic ductal adenocarcinoma, identified by global expression microarrays, validation of, 52
standardization of clinical, 669
thyroid transcription factor-1 and hepatocyte antigen, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, renal cell carcinoma, and adrenal cortical carcinoma, comparison of, 911
tissue array technology for testing interlaboratory and interobserver reproducibility of estrogen receptor analysis in large multicenter trial, 675
Whipple disease diagnosis by, sensitive and specific method for detecting *Tropheryma whipplei* in paraffin embedded tissue, 742
- Immunophenotyping
cytologic lymphocyte-associated antigen expression in pulmonary lymphomatoid granulomatosis, 391
by flow cytometry
CD117 and CD11b expression in bone marrow can differentiate acute promyelocytic leukemia from recovering benign myeloid proliferation, 31
decision-support system for, 567
malignant epithelial cells in effusions detected by, 85
of small B-cell neoplasms in primary lymph node and concurrent blood or marrow samples, comparison of, 758
surface immunoglobulin light chain, lack of expression by, in diagnosis of peripheral B-cell lymphoma, 229
- Impedance platelet counts, platelet counting by Coulter LH 750, Sysmex XE 2100, and Advia 120, comparative analysis using RBC/platelet ratio method, 235
- Imprint smears, intraoperative cytology as increasing diagnostic accuracy of frozen sections for confirmation of various tissues in parathyroid region, 895
- Inflammation, validation of Diesse Mini-Ves erythrocyte sedimentation rate analyzer using Westergren ESR method, in patients with systemic inflammatory conditions, 11, 14
- Informatics. *See also* Computers
data integration in laboratory reports, an example of kidney stone reporting, 179
training in pathology residency programs, 172
- Information for Authors, 141
- In Memoriam
Victor (Vic) H. Muller, 468
- In situ hybridization, Hodgkin disease in adult and juvenile groups from two different geographic regions of Brazil, characterization of clinicopathologic aspects and relationship with Epstein-Barr virus infection, 25

Interlaboratory reproducibility, of immunohistochemical estrogen receptor analysis, tissue array technology for testing, 675
 Interobserver reproducibility, of immunohistochemical estrogen receptor analysis, tissue array technology for testing, 675
 Intraoperative consultation, cytology as increasing diagnostic accuracy of frozen sections for confirmation of various tissues in parathyroid region, 895
 Iron overload, hepatic, role of liver biopsy in diagnosis of, in the era of genetic testing, 73

K

Ki-67, in immunohistochemical analysis for preoperative diagnosis of extremely well-differentiated gastric adenocarcinoma, usefulness of, 683
 Kidney
 data integration in laboratory reporting, an example of kidney stone reporting, 179
 renal cell carcinoma
 comparison of standardized and nonstandardized nuclear grade to predict outcome among 2,042 patients, 827, 877
 frozen section evaluation of parenchymal margins in nephron-sparing surgery, potential pitfalls of, 903
 MUC1 expression is correlated with nuclear grade and tumor progression in pT1 clear cell, 47
 thyroid transcription factor-1 and hepatocyte antigen immunohistochemical analysis, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, adrenal cortical carcinoma and, comparison of, 911
 renal osteodystrophy, S64
 KIT (CD117), testing for in gastrointestinal stromal tumors, standardization of, 163, 669

L

Langerhans cell histiocytosis, immunohistochemical expression of fascin, a dendritic cell marker, 335
 Larynx, supraglottic, expression of CD44s and CD44v6 isoforms in squamous cell carcinoma of the, clinicopathologic significance of, 67
 Latex agglutination test, Oxoid PBP2', for rapid identification of methicillin-resistant *Staphylococcus aureus* in blood cultures, practical therapeutic application of, 287
 Leukemia
 acute promyelocytic, CD117 and CD11b expression in bone marrow can differentiate recovering benign myeloid proliferation from, 31
 CD33 intensity differences between various myeloid neoplasms, 560
 chronic neutrophilic, expression of μ -BCR-ABL transcripts in, 842
 Leukocyte differential count reports, usefulness to clinicians of, 787
 Leukocyte-reduced transfusions, in cardiac surgery, results of an implementation trial, 376
 Ligase chain reaction, for *Mycobacterium tuberculosis* diagnosis, S7

Ligation-mediated polymerase chain reaction, for *Mycobacterium tuberculosis* strain typing, S14
 Light chain, surface immunoglobulin, lack of expression of, by flow cytometric immunophenotyping, in diagnosis of peripheral B-cell lymphoma, 229
 Liposome-encapsulated hemoglobin, as blood substitute, S77
 Liquid-based smears
 DNA ploidy measurement on, showing conflicting results between cytology and high-risk human papillomavirus typing, usefulness of, 708
 location-guided screening in, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399
 malignant melanoma cytopathology, in conventional smears and, 435
 Liver. *See also* Hepatitis
 biopsy's role in diagnosis of hepatic iron overload in the era of genetic testing, 73
 hepatocellular carcinoma, thyroid transcription factor-1 and hepatocyte antigen immunohistochemical analysis, in differential diagnosis of metastatic adenocarcinoma, renal cell carcinoma, adrenal cortical carcinoma and, comparison of, 911
 peripheral T-cell lymphoma arising in the, 574
 Location-guided screening, of liquid-based cervical cytology specimens, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399
 Logistic regression, risk assessment in localized primary cutaneous melanoma, Southwest Oncology Group study evaluating nine factors and test of Clark logistic regression model, 489, 504
 Loss of heterozygosity, molecular mutations in thyroid carcinogenesis, S116
 Löwenstein-Jensen medium, for recovery of mycobacteria from clinical specimens, comparison with BACTEC 960 Mycobacteria Indicator Tube system, 542
 Lung cancer, O-glycosylation pattern differences between squamous cell carcinoma and adenocarcinoma, 749
 Lungs, pulmonary lymphomatoid granulomatosis, cytologic lymphocyte-associated antigen expression in, 391
 Lymph nodes
 immunophenotypes of small B-cell neoplasms in primary, and concurrent blood or marrow samples, comparison of, 758
 terminal deoxynucleotidyl transferase-positive lymphoid cells in reactive, from children with malignant tumors, incidence, distribution pattern, and immunophenotype in 26 patients, 248
 Lymphocyte-associated antigens, cytologic, expression in pulmonary lymphomatoid granulomatosis, 391
 Lymphoid aggregates, benign, and bone marrow lesions of systemic mastocytosis, 242
 Lymphoma
 anaplastic large cell, clusterin as widely expressed in systemic, but fails to differentiate primary from secondary cutaneous, 773
 CD5+ follicular, a clinicopathologic study of three cases, 589
 composite angioimmunoblastic T-cell and diffuse large B-cell, case report and review of the literature, 848
 follicular
 follicular pattern of bone marrow involvement by, 780
 primary cutaneous, t(14;18) and bcl-2 expression are present in a subset of, association with lower grade, 765

- mantle cell
 CD5-, 216
 interphase FISH for diagnosis of t(11;14)(q13;q32) on skin lesions of, 832
 non-Hodgkin, anaplastic lymphoma kinase expression in, biological, diagnostic, and clinical implications, S81
 peripheral B-cell, surface immunoglobulin light chain expression, lack of, by flow cytometric immunophenotyping, in diagnosis of, 229
 peripheral T-cell
 apoptotic rate in, study using tissue microarray with validation on full tissue sections, 328
 arising in the liver, 574
 small B-cell, immunophenotypes of small B-cell neoplasms in primary lymph node and concurrent blood or marrow samples, comparison of, 758
 Lymphomatoid granulomatosis, pulmonary, cytologic lymphocyte-associated antigen expression in, 391
- M**
- Mantle cell lymphoma
 CD5-, 216
 interphase FISH for diagnosis of t(11;14)(q13;q32) on skin lesions of, 832
 Mantoux (tuberculin) test, S4
 Marathon running, effects on hematologic and biochemical laboratory parameters, including cardiac markers, 856
 Marrow. *See* Bone marrow
 Mass spectrometry, SELDI affinity, proteomic evaluation of archival cytologic material using, potential for diagnostic applications, 825, 870
 Mast cells, bone marrow lesions of systemic mastocytosis, immunohistochemical study of, 242
 Mastocytosis, bone marrow lesions of systemic, immunohistochemical study of, 242
 Maxillofacial bones, benign fibro-osseous diseases of the, review and differential diagnosis, S50
 Mediastinum, nonteratomatous germ cell tumors of the, fine-needle aspiration biopsy of, 418
 Meeting Minutes
 Academy of Clinical Laboratory Physicians and Scientists (ACLPS), 599
 Melan-A, as marker in diagnosis of melanoma in cytologic preparations, 930
 Melanoma
 cutaneous, risk assessment in localized primary, Southwest Oncology Group study evaluating nine factors and test of Clark logistic regression model, 489, 504
 five antibodies as markers in diagnosis of, in cytologic preparations, comparison of, 930
 malignant, cytopathology of, in conventional and liquid-based smears, 435
 proteomic evaluation of archival cytologic material using SELDI affinity mass spectrometry, potential for diagnostic applications, 870
 Melatonin receptors, high-affinity (MT1), differential expression of, in normal and malignant breast tissue, 451
 Mesothelium, malignant epithelial cells in effusions, flow cytometric immunophenotyping for detection of, 85
 Metastasis, E-cadherin expression correlating with primary breast carcinoma infiltration pattern and type of systemic metastases, 425
 Methicillin-resistant *Staphylococcus aureus*, in blood cultures, Oxoid PBP2' latex agglutination test for rapid identification of, practical therapeutic application of, 287
 Microarrays, global expression, novel epithelial and novel stromal marker of pancreatic ductal adenocarcinoma identified by, immunohistochemical validation of, 52
 Microcystic adnexal carcinoma, S36
 Microphthalmia transcription factor, as marker in diagnosis of melanoma in cytologic preparations, 930
 Molecular beacon sequence analysis, for *Mycobacterium tuberculosis* susceptibility testing, S11
 Molecular diagnosis
 in HIV infection, S26
 of *Mycobacterium tuberculosis*, S3
 Monoclonal antibody therapy, CD33 intensity differences between various myeloid neoplasms, 560
 Monomorphic adenoma, S103
 MUC1, expression is correlated with nuclear grade and tumor progression in pT1 renal clear cell carcinoma, 47
 Mucin
 O-glycosylation pattern differences between lung squamous cell carcinoma and adenocarcinoma, 749
 p53 and Ki-67 immunohistochemical analysis for preoperative diagnosis of extremely well-differentiated gastric adenocarcinoma, usefulness of, 683
 reliability of diagnosis of mucinous lesions of the breast by core needle biopsy, 82
 Mucocoeles, reliability of diagnosis of mucinous lesions of the breast by core needle biopsy, 82
 Mucoepidermoid carcinoma
 high-grade, S110
 low-grade, S106
 Multidrug resistance, in *Mycobacterium tuberculosis* diagnosis, S9
 Multiple endocrine neoplasia (MEN) syndrome, S122
 Multiplexed fluorescent microsphere immunoassay, in cytokine response determination, 346
 Mutations, molecular, in thyroid carcinogenesis, S116
 Mycobacteria
 Mycobacterium tuberculosis diagnosis and susceptibility testing, S3
 rapid and accurate identification of, by sequencing hypervariable regions of the 16S ribosomal RNA gene, 796
 recovery from clinical specimens, BACTEC 960 Mycobacteria Indicator Tube system compared with Löwenstein-Jensen medium, 542
 Mycology
 anti-gp43 antibodies in cerebrospinal fluid of patients with central nervous system involvement by paracoccidioidomycosis, 864
 osseous blastomycosis, delayed diagnosis in two patients following environmental exposure in nonendemic areas, 536
 status of laboratory practice and need for continuing education in medical, evaluation of the, 167, 278
 Myelodysplasia, valproate-associated dysmyelopoiesis in the aged, 225
 Myelodysplastic syndrome, CD33 intensity differences between various myeloid neoplasms, 560

- Myeloid neoplasms, CD33 intensity differences between various, 560
- Myeloproliferative disorders, CD33 intensity differences between various myeloid neoplasms, 560
- Mylotarg, CD33 intensity differences between various myeloid neoplasms, 560
- Myocardial infarction
 - cardiac marker measurement, 354
 - cardiac markers for, a brief review, S93
- Myoepithelioma, S106
- Myoglobin
 - cardiac marker measurement, 354
 - as myocardial infarction marker, S93

N

- Natriuretic peptide, B-type, as myocardial infarction marker, S97
- Needle biopsy. *See also* Core needle biopsy; Fine-needle aspiration biopsy
 - carcinoma extent in prostate tissue in prediction of whole gland tumor volume in a screening population, 442
- Neoplasms. *See also* sites and types by name
 - proteomic evaluation of archival cytologic material using SELDI affinity mass spectrometry, potential for diagnostic applications, 825, 870
- Nephrectomy
 - comparison of standardized and nonstandardized nuclear grade of renal cell carcinoma to predict outcome among 2,042 patients, 827, 877
 - nephron-sparing surgery, frozen section evaluation of parenchymal margins in, potential pitfalls of, 903
- Nephron-sparing surgery, frozen section evaluation of parenchymal margins in, potential pitfalls of, 903
- Neuroparacoccidioidomycosis, anti-gp43 antibodies in cerebrospinal fluid of patients with central nervous system involvement by, 864
- News and Notices, 146, 474, 795
- NFI* gene, muscle-invasive transitional cell carcinoma of the bladder, kinetic profiles by topographic compartments in, role of *TP53* and, 93
- Northern blot analysis, molecular quality of human tissues, an experience from the Cooperative Human Tissue Network, 733
- Nucleic acids, analysis of molecular quality of human tissues, an experience from Cooperative Human Tissue Network, 733
- Nucleic acid sequencing, in *Mycobacterium* species identification, S10

O

- O-glycosylation, pattern differences between lung squamous cell carcinoma and adenocarcinoma, 749
- Oligodendroglioma, chromosome 1p allelic loss, in differentiating from dysembryoplastic neuroepithelial tumors, 512
- Oncocytic neoplasms, S105
- Oncogenes, molecular mutations in thyroid carcinogenesis, S116

- Optical platelet counts, platelet counting by Coulter LH 750, Sysmex XE 2100, and Advia 120, comparative analysis using RBC/platelet ratio method, 235
- Osseous blastomycosis, delayed diagnosis in two patients following environmental exposure in nonendemic areas, 536
- Osseous dysplasia, S56
- Ossifying fibroma, S54
- Osteoblastoma, S62
- Osteodystrophy, renal, S64
- Osteoid osteoma, S62
- Osteoma, osteoid, S62
- Osteosarcoma, low-grade, S61
- Ovarian carcinoma, *CAS* (cellular apoptosis susceptibility) gene expression in, correlation with 20q13.2 copy number and cyclin D1, p53, and Rb protein expression, 922
- Oxoid PBP2' latex agglutination test, for rapid identification of methicillin-resistant *Staphylococcus aureus* in blood cultures, practical therapeutic application of, 287

P

- p24 antigen test, S28
- p53
 - CAS* (cellular apoptosis susceptibility) gene expression in ovarian carcinoma, correlation with 20q13.2 copy number, cyclin D1, Rb protein expression, and, 922
 - in immunohistochemical analysis for preoperative diagnosis of extremely well-differentiated gastric adenocarcinoma, usefulness of, 683
- Paget disease of bone, S60
- Pancreas
 - adenocarcinoma of
 - ductal, novel epithelial and novel stromal marker of, identified by global expression microarrays, immunohistochemical validation of, 52
 - and pancreatic intraepithelial neoplasms, cyclooxygenase 2 expression in, immunohistochemical analysis with automated cellular imaging, 194
 - carcinoma of, CD97, but not closely related EGF-TM7 family member EMR2, is expressed in, 699
 - cystadenoma of, unilocular acinar cell, 211
- Papanicolaou smear
 - American Society for Colposcopy and Cervical Pathology (ASCCP) patient management guidelines, Pap test specimen adequacy and quality indicators, 714
 - dual sampling of endocervix, and its impact on AutoCyte Prep endocervical adequacy, 41
 - improving turnaround time, using external benchmark data and engineering process improvement tools, 527
 - location-guided screening of liquid-based cervical cytology specimens, a potential improvement in accuracy and productivity is demonstrated in a preclinical feasibility trial, 399
- Paracoccidioidomycosis, anti-gp43 antibodies in cerebrospinal fluid of patients with central nervous system involvement by, 864
- Parafollicular cells (C cells), tumors of, S121
- Parathyroid gland, intraoperative cytology as increasing diagnostic accuracy of frozen sections for confirmation of various tissues in region of, 895

Penicillin, cross-reactivity of cefotetan and ceftriaxone antibodies with, 256

Perfluorocarbon emulsions, in blood substitutes, S71

Periostitis, proliferative, S63

Peripheral blood, immunophenotypes of small B-cell neoplasms in primary lymph nodes and concurrent samples of marrow or, comparison of, 758

Phenobarbital, immunoassays for antiepileptic drugs, performance characteristics of four, on the IMMULITE 2000 automated analyzer, 124

Phenotypic assays, for *Mycobacterium tuberculosis* susceptibility testing, S12

Phenytoin, immunoassays for antiepileptic drugs, performance characteristics of four, on the IMMULITE 2000 automated analyzer, 124

Phyllodes tumors, hormonal receptors expression in epithelial cells of mammary, correlates with pathologic grade of tumor, multicenter study of 143 cases, 522

Pilomatrix carcinoma, S42

Pilomatrixoma, S41

Platelet counting
by Coulter LH 750, Sysmex XE 2100, and Advia 120, comparative analysis using RBC/platelet ratio method, 235
usefulness of reports to clinicians, 787

Pleomorphic adenoma, S102

Point-of-care testing, with cardiac markers, S98

Polymarker assay, and transfusion's effect on DNA profiling, 382

Polymerase chain reaction
gene amplification and protein overexpression of c-erb-b2 in Barrett carcinoma and its precursor lesions, 60
molecular quality of human tissues, an experience from the Cooperative Human Tissue Network, 733
mycobacteria, rapid and accurate identification by sequencing hypervariable regions of the 16S ribosomal RNA gene, 796
for *Mycobacterium tuberculosis* diagnosis, S5
single-tube multiplex, for detection of common alpha-thalassemia genotypes in a clinical laboratory, evaluation of, 18
in situ, chronic neutrophilic leukemia, expression of μ -BCR-ABL transcripts in, 842
and surface immunoglobulin light chain lack of expression by flow cytometric immunophenotyping, in diagnosis of peripheral B-cell lymphoma, 229
transfusion's effect on DNA profiling studied by, 382

Porocarcinoma, eccrine, S38

Poroma, eccrine, S38

Precursor B cells, terminal deoxynucleotidyl transferase expression in reactive lymph nodes from children with malignant tumors, 248

Process improvement, in Pap test turnaround time improvement, 527

Progesterone receptor, expression in epithelial cells of mammary phyllodes tumors correlates with pathologic grade of tumor, multicenter study of 143 cases, 522

Proliferation, muscle-invasive transitional cell carcinoma of the bladder, kinetic profiles by topographic compartments in, role of *TP53* and *NF1* genes, 93

Prostate carcinoma, carcinoma extent in needle biopsy tissue in prediction of whole gland tumor volume in a screening population, 442

Prostate-specific antigen

carcinoma extent in prostate needle biopsy tissue in prediction of whole gland tumor volume in a screening population, 442

polyclonal anti-PSA is more sensitive but less specific than monoclonal anti-PSA, implications for diagnostic prostatic pathology, 202

Protein fingerprint, proteomic evaluation of archival cytologic material using SELDI affinity mass spectrometry, potential for diagnostic applications, 825, 870

Proteomics, archival cytologic material using SELDI affinity mass spectrometry, evaluation of, potential for diagnostic applications, 825, 870

Proton pump inhibitors, chronic inactive gastritis, and coccoid *Helicobacter pylori*, in patients treated for gastroesophageal reflux disease or with *H pylori* eradication therapy, 719

Pulmonary lymphomatoid granulomatosis, cytologic lymphocyte-associated antigen expression in, 391

Q

Q-Probes, as benchmark for improving Pap test turnaround time, 527

Quality assurance
anticardiolipin antibody assays for detecting antiphospholipid antibodies, assessing usefulness of, 548
American Society for Colposcopy and Cervical Pathology (ASCCP) patient management guidelines, Pap test specimen adequacy and quality indicators, 714
decision-support system for flow cytometry immunophenotyping, 567
molecular quality of human tissues, an experience from the Cooperative Human Tissue Network, 733
tissue array technology for testing interlaboratory and interobserver reproducibility of immunohistochemical estrogen receptor analysis in large multicenter trial, 675

R

ras mutations, in thyroid carcinogenesis, S116

Reactive mesothelial cells, proteomic evaluation of archival cytologic material using SELDI affinity mass spectrometry, potential for diagnostic applications, 870

Reference values, marathon runners' results as outside standard ranges for, 856

Reporting, data integration in, an example of kidney stone, 179

Reptilase time, fibrinogen level associated with prolonged, 263

Residency programs, informatics training in pathology, 172

Resiniferatoxin, vanilloid receptors in health and disease, 110

Restriction fragment length polymorphism
for *Mycobacterium tuberculosis* strain typing, S13
transfusion's effect on DNA profiling studied by, 382

Reticulocyte count reports, usefulness to clinicians of, 787

RET immunostaining, in follicular lesions of thyroid, interpretation of, 165, 186

Retinoblastoma protein, CAS (cellular apoptosis susceptibility) gene expression in ovarian carcinoma, correlation with

- 20q13.2 copy number and cyclin D1, p53 expression, and, 922
- ret* mutations, in thyroid carcinogenesis, S116
- ret-ptc* translocation, in thyroid carcinogenesis, S116
- Risk assessment, in localized primary cutaneous melanoma, Southwest Oncology Group study evaluating nine factors and test of Clark logistic regression model, 489, 504
- RNA
 - analysis of molecular quality of human tissues, an experience from Cooperative Human Tissue Network, 733
 - rapid and accurate identification of mycobacteria, by sequencing hypervariable regions of the 16S ribosomal RNA gene, 796
- S**
- S-100 protein, as marker in diagnosis of melanoma in cytologic preparations, 930
- Salivary duct, carcinoma of, S111
- Salivary glands, fine-needle aspiration biopsy of neoplasms of, with emphasis on differential diagnosis, S100
- Sarcoma, proteomic evaluation of archival cytologic material using SELDI affinity mass spectrometry, potential for diagnostic applications, 870
- Scrape cytology smears, intraoperative cytology as increasing diagnostic accuracy of frozen sections for confirmation of various tissues in parathyroid region, 895
- Screening, carcinoma extent in prostate needle biopsy tissue in prediction of whole gland tumor volume in a screening population, 442
- Sea urchin fascin homolog, as novel epithelial marker of pancreatic ductal adenocarcinoma, identified by global expression microarrays, immunohistochemical validation of, 52
- Seminal vesicles, PSA immunoreactivity in benign epithelium of, 202
- Serous effusions, malignant epithelial cells in, flow cytometric immunophenotyping for detection of, 85
- Shiga toxins, in enterohemorrhagic *Escherichia coli*-induced hemolytic uremic syndrome, 323, 364
- Sialadenitis, chronic, S112
- Sialolithiasis, chronic, S112
- 16S ribosomal RNA gene, mycobacteria, rapid and accurate identification by sequencing hypervariable regions of the, 796
- Skin cancer
 - clusterin as widely expressed in systemic anaplastic large cell lymphoma, but fails to differentiate primary from secondary cutaneous anaplastic large cell lymphoma, 773
 - cutaneous adnexal neoplasms, S33
 - risk assessment in localized primary cutaneous melanoma, Southwest Oncology Group study evaluating nine factors and test of Clark logistic regression model, 489, 504
 - t(11;14)(q13;q32) on skin lesions of mantle cell lymphoma, interphase FISH for diagnosis of, 832
 - t(14;18) and bcl-2 expression are present in a subset of primary cutaneous follicular lymphoma, association with lower grade, 765
- Small intestine, histologic follow-up of people with celiac disease on gluten-free diet, slow and incomplete recovery, 459
- Sodium valproate, valproate-associated dysmyelopoiesis in the aged, 225

- Specimen adequacy
 - analysis of molecular quality of human tissues, an experience from Cooperative Human Tissue Network, 733
- American Society for Colposcopy and Cervical Pathology (ASCCP) patient management guidelines, Pap test quality indicators and, 714
- reprocessing unsatisfactory ThinPrep cervicovaginal specimens with and without glacial acetic acid, efficacy of, effect on Hybrid Capture II human papillomavirus testing and clinical follow-up, 727
- Spiradenocarcinoma, eccrine, S34
- Spiradenoma, eccrine, S34
- Spironolactone, digoxin-like immunoreactive substances, impact on therapeutic drug monitoring of digoxin, 132
- Spoligotyping, for *Mycobacterium tuberculosis* strain typing, S14
- Sports medicine, marathon running's effects on hematologic and biochemical laboratory parameters, including cardiac markers, 856
- Standardization of laboratory tests, 167, 669
- Staphylococcus aureus*, methicillin-resistant, in blood cultures, Oxoid BP2⁺ latex agglutination test for rapid identification of, practical therapeutic application of, 287
- Steatohepatitis, role of liver biopsy in diagnosis of hepatic iron overload in the era of genetic testing, 73
- Stem cell factor, in bone marrow lesions of systemic mastocytosis, 242
- Stromal tumors, gastrointestinal, testing for KIT (CD117) in, 163
- Surface immunoglobulin light chain, lack of expression of, by flow cytometric immunophenotyping, in diagnosis of peripheral B-cell lymphoma, 229
- Syringoma, S36
- chondroid, S39

T

- Terminal deoxynucleotidyl transferase
 - terminal deoxynucleotidyl transferase-mediated dUTP nick-end labeling, in peripheral T-cell lymphoma apoptotic rate study, 328
 - terminal deoxynucleotidyl transferase-positive lymphoid cells in reactive lymph nodes from children with malignant tumors, incidence, distribution pattern, and immunophenotype in 26 patients, 248
- alpha-Thalassemia, single-tube multiplex polymerase chain reaction, for detection of common genotypes in a clinical laboratory, evaluation of, 18
- Therapeutic drug monitoring
 - of digoxin, impact of endogenous and exogenous digoxin-like immunoreactive substances on, 132
 - performance characteristics of four immunoassays for antiepileptic drugs, on the IMMULITE 2000 automated analyzer, 124
- ThinPrep, reprocessing unsatisfactory specimens with and without glacial acetic acid, efficacy of, effect on Hybrid Capture II human papillomavirus testing and clinical follow-up, 727
- Thrombin time, fibrinogen level associated with prolonged reptilase time but typically not with, 263
- Thrombotic microangiopathy, gnotobiotic piglets developing after oral infection with enterohemorrhagic *Escherichia coli*, 323, 364

- Thymus helper cytokines, multiplexed fluorescent microsphere immunoassay in analysis of, 346
- Thyroid
- adequacy in fine-needle aspirates, evidence-based criteria for, 518
 - follicular lesions of, RET immunostaining in, 165, 186
 - molecular mutations in carcinogenesis of, S116
 - papillary carcinoma of, focal features of, in fine-needle aspiration material, are strongly associated with papillary carcinoma at resection, 208
- Thyroid transcription factor-1, and hepatocyte antigen immunohistochemical analysis, in differential diagnosis of hepatocellular carcinoma, metastatic adenocarcinoma, renal cell carcinoma, and adrenal cortical carcinoma, comparison of, 911
- Tissue analysis, of molecular quality of human tissues, an experience from Cooperative Human Tissue Network, 733
- Tissue microarray
- apoptotic rate in peripheral T-cell lymphoma, study using, with validation on full tissue sections, 328
 - for testing interlaboratory and interobserver reproducibility of immunohistochemical estrogen receptor analysis in large multicenter trial, 675
- TP53* gene, muscle-invasive transitional cell carcinoma of the bladder, kinetic profiles by topographic compartments in, role of *NF1* and, 93
- Training
- in informatics, in pathology residency programs, 172
 - in new laboratory technologies, 167
 - status of laboratory practice and need for continuing education in medical mycology, 278
- Transcription-mediated amplification assays, for *Mycobacterium tuberculosis* diagnosis, S7
- Transfusion
- blood substitutes' effect on, S78
 - DNA profiling as not affected by, 382
 - leukocyte-reduced, in cardiac surgery, results of an implementation trial, 376
- trk* mutations, in thyroid carcinogenesis, S116
- Tropheryma whipplei*, immunohistochemical detection of, in paraffin embedded tissue, 742
- Troponins
- cardiac marker measurement, 354
 - as myocardial infarction markers, S93
- t(11;14)(q13;q32) translocation, on skin lesions of mantle cell lymphoma, interphase FISH for diagnosis of, 832
- t(14;18)(q32;q21) translocation
- in CD5+ follicular lymphoma, 589
 - in a subset of primary cutaneous follicular lymphoma, association with lower grade, 765

- Tuberculin (Mantoux) test, S4
- Tuberculosis, advances in laboratory diagnosis and drug susceptibility testing for, S3
- Tumor markers, RET and cytokeratin 19, in follicular lesions of thyroid, 165, 186
- Tumors. *See* Neoplasms
- Tumor suppressor genes, molecular mutations in thyroid carcinogenesis, S117
- 20q13.2 copy number, *CAS* (cellular apoptosis susceptibility) gene expression in ovarian carcinoma, correlation with cyclin D1, p53, Rb protein expression, and, 922
- Tyrosinase, as marker in diagnosis of melanoma in cytologic preparations, 930

V

- Valproic acid, immunoassays for antiepileptic drugs, performance characteristics of four, on the IMMULITE 2000 automated analyzer, 124
- Vanilloid receptors, in health and disease, 110
- Viral load testing, for HIV, S29
- von Willebrand disease, type 2N (Normandy), identification in Australia, a cross-laboratory investigation using different methods, 269

W

- Warthin tumor, S104
- Westergren ESR method, validation of Diesse Mini-Ves erythrocyte sedimentation rate analyzer using, in patients with systemic inflammatory conditions, 11, 14
- Whipple disease, diagnosis by immunohistochemical methods, sensitive and specific method for detecting *Tropheryma whipplei* in paraffin embedded tissue, 742

Z

- ZNF217* gene, *CAS* (cellular apoptosis susceptibility) gene expression in ovarian carcinoma, correlation with 20q13.2 copy number and cyclin D1, p53, and Rb protein expression, 922